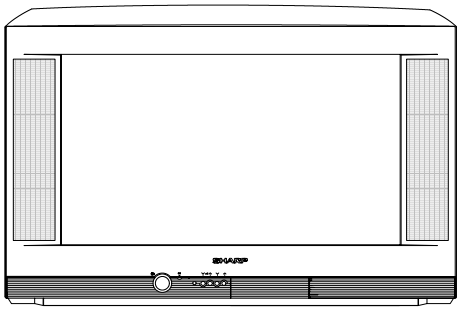
SHARP®

SERVICE MANUAL

SEJB28HW53E00
Issued: 17th Dec 2001

DA-50W CHASSIS

PAL B/G, I / SECAM L/L', B/G, D/K SYSTEM COLOUR TELEVISION



MODEL

28HW-53E ES/F/IT/SE

In the interests of user safety (required by safety regulations in some countries) the set should restored to its original condition and only parts identical to those specified should be used.

CONTENTS

ELECTRICAL SPECIFICATIONS.....3
IMPORTANT SERVICING NOTES.....4
ADJUSTMENTS PROCEDURES.....5
LED FLASHING CODES.....10
PRINTED WIRING BOARDS.....11
COMPONENT LOCATION TABLES.....18
SCHEMATIC DIAGRAMS.....24
BLOCK DIAGRAM.....32
PARTS LISTING.....33
PACKING OF THE SET & ACCESSORIES.....42
CONTROLS &TERMINALS.....43

SHARP CORPORATION

This document has been published to be used for after sales service only.

SERVICE MANUAL UPDATE LOG SHEET

Technical Report No. Technical Bulletin No.	Cause / Solution	Part No.	Page No.	Application Data /Serial No.

Use this page to keep any special servicing information as Technical Report (Bulletin), Technical Information, etc.
If only part number changes are required, just change part number directly the part number in the Parts Listing Section.
If you need more information, please refer to the Technical Report (Bulletin).

ELECTRICAL SPECIFICATIONS

•Power Input ..... 220V-240 Volts AC 50Hz

•Power Consumption
Normal Operation 88W
Stand-by Operation 1.3W

•Audio Power Output Rating (MPO) / Impedance
Internal Left Speaker 10W, 7Ω
Internal Right Speaker 10W, 7Ω

•Speakers
Left / Right ..... 6 x 12cm

•Convergence
Static (Centre) between any two colours.....
..... 0.12 cm max.
Dynamic after static equals zero... 0.28cm max.

•Focus ..... High Bi-Potential Electrostatic

•Sweep Deflection ..... Magnetic

•Picture Intermediate frequency
L'.....33.9MHz
L, B/G, D/K,I.....38.9MHz

•Sound Carrier Trap
L'.....40.4MHz
L, D/K.....32.4MHz
B/G.....33.4MHz
I.....32.9MHz

•Adjacent Sound Carrier Trap
L'.....32.4MHz
L, D/K, B/G.....40.4MHz
I.....40.9MHz

•Adjacent Picture Carrier Trap
L'.....41.9MHz
L, D/K,I.....30.9MHz
B/G.....31.9MHz

•Aerial Input Impedance
VHF/UHF ..... 75 ohm Unbalanced

•Tuning Ranges ..... 45.75MHz thru 855.25 MHz
VHF: IR A - J / S1 - S41 CH (Hiperband)
UHF: I21 - I69 CH
CATV Special Channels

•White Level
Set brightness control to get total picture tube cathode current of 600 microampere under no signal condition. Maximum necessary correction of each picture tube cathode current to get 8550 degrees K+1 MPCD screen temperature should not exceed 15% of its original value.
X=0.290 Y=0.300

Specifications are subject to change without prior notice.

MODEL DESTINATION (Operation Manual languages).
28HW-57EES: Portuguese and Spanish.
28HW-5EF: French.
28HW-57EIT: Italian.
28HW-57ESE: Danish, English, Finnish, Norwegian and Swedish.

WARNING

The chassis in this receiver is partially hot. Use an isolation transformer between the line cord plug and power receptacle, when servicing this chassis.
To prevent electric shock, do not remove cover. No user-serviceable parts inside. Refer servicing to qualified service personnel.

IMPORTANT SERVICING NOTES

Only qualified service personnel are allowed to carry out maintenance and repair of this receiver.

SERVICING OF HIGH VOLTAGE SYSTEM AND CRT

It is important that the static charge is removed from the high voltage system when carrying out work on the receiver. This can be achieved by connecting a 10K resistor (with a suitably insulated lead) from the CRT cavity connector to the CRT ground tag. This must be carried out with the AC supply disconnected from the receiver.

Note the following:

- The CRT in this receiver employs Integral Implosion Protection.
- If the CRT has to be changed it MUST be replaced with the correct type for continued safe working
- DO NOT lift the CRT by its neck.
- When handing the CRT, ensure that shatterproof goggles are worn.
- Ensure that the CRT is discharge before handling.

X-RAY

This receiver is designed to keep any x-ray emission to an absolute minimum. Some fault conditions and servicing procedures may produce potentially hazardous x-ray radiation levels. This is a problem when in close proximity to the receiver for long periods of time. To reduce any risks associated with this, please observe the following precautions:

1. When undertaking any servicing on this chassis, DO NOT increase the EHT to more than 32 KV, (at a instantaneous beam current of 1500μA).
2. Ensure that during normal operation the EHT does not exceed 30KV±1.5KV (at a beam current of 1300μA). This level has been preset in the factory. Always check that this level has not been exceeded after carrying out any repair on the receiver..
3. DO NOT replace the CRT with any other type than that specified in the parts listing as this may cause excessive x-ray radiation.

BEFORE RETURNING THE RECEIVER TO THE CUSTOMER

In addition to the above checks, the following should also be carried out before returning the receiver to the customer.

1. Inspect all the leads to ensure that they are dressed correctly and that they are not obstructed or pinched by any other parts.
2. Ensure that all protective devices are in good condition. These will include nonmetallic control knobs, insulating fish papers, cabinets backs, compartment covers or shields, mechanical insulators, etc.

ADJUSTMENT PROCEDURES

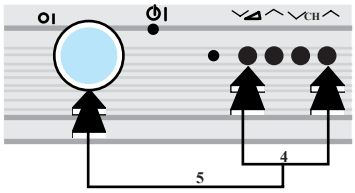
All adjustments to this chassis, except for focus, are carried out in the service mode.

• SERVICE MODE

The service mode is provided to enable the engineer to correctly set up the receiver to the CRT fitted in the set. Note that these adjustments may vary from one receiver to another.

To enter the service mode, carry out the following procedure.

1. Connect a test pattern to the antenna terminal.
2. Tune the receiver to this signal.
3. Turn the receiver off using the mains switch.
4. Press volume down and channel up buttons on the front of the receiver at the same time.
5. Keeping these buttons pressed, turn the mains on.
6. When the set starts up it will be in service mode.
7. Release the two buttons.



- Use the channel up and down buttons to move between the options.
- Use the volume control buttons to change the data.
- To store the data, use the stand-by button on the remote control.
- To exit the service mode, turn the receiver off using the mains switch.

When the service mode is entered the following On Screen Display appears

-SERVICE SOFTWARE AND HEXADECIMAL COUNTER DISPLAY:
SW ON XXXX SW OFF XXXX HOURS ON XXXX

The figures displayed in the XXXX locations are hexadecimal representations of the number of times that particular function has been executed. For example if the hexadecimal number displayed after SW ON was 0E4A, this would correspond to the receiver being turned on 3658 times.

Adjustment menu:

The following adjustments can be carried out in the service mode.

- Horizontal Shift
- East West Width
- Pin Phase
- Pin Amp
- Corner Amplitude
- Corner Symmetry
- Vertical Linearity
- Vertical Angle
- Vertical Bow
- Vertical Amplitude
- S Correction
- Vertical Shift
- Red Gain
- Green Gain
- Blue Gain
- Red Cut Off
- Green Cut Off
- Blue Cut Off
- Alter NVM Page
- Alter NVM Position
- Alter NVM Value
- Teletext Mix Mode Contrast
- Teletext Contrast
- OSD Contrast
- DVCO Adjustment (Only PAL)
- DVCO Adjustment (Only NTSC)
- AGC Adjustment
- AFT Adjustment
- AFT Adjustment for L'
- OPC Value
- Auto Installation On/Off

Geometry Adjustments

All geometry adjustments are based on an internally generated test pattern as shown in figure 1. When carrying out any of the above geometry adjustments, use the internally generated test pattern for guidance.

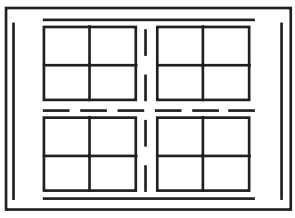


Fig.1

Note that the receiver should be set to FULL MODE before carrying out any geometry adjustments. This can be achieved by pressing the widescreen mode button on the remote control until FULL MODE appears on the OSD. This can only be done out of the service mode.

The following geometry adjustments can be carried out. Detailed instructions on how to execute these are given on the following pages

Horizontal

- Horizontal Shift
- E-W Width
- Pin Phase
- Pin Amp
- Corner Amplitude
- Corner Symmetry

Vertical

- Vertical Amplitude
- Vertical Shift
- Vertical Bow
- Vertical Angle
- S Correction
- Vertical Linearity

Just in case the the TV set requires a full geometries adjustment, please proceed first with Vertical according to the above order, and after that, adjust Horizantal according to the above order.

Horizontal Shift
Adjust the horizontal shift so that the picture is centred.
The effect of this adjustment is shown in figure 2.

- When the volume up button is pressed, the picture moves to the right.
- When the volume down button is pressed, the picture moves to the left.
- Press the stand-by button on the remote control to store.

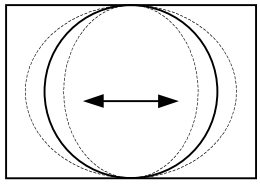


Fig.2

E-W Width
Adjust the E-W Width so that 9% over-scan is achieved.
The effect of this adjustment is shown in figure 3.

- When the volume up button is pressed, horizontal scanning increases.
- When the volume down button is pressed, horizontal scanning decreases.
- Press the stand-by button on the remote control to store.

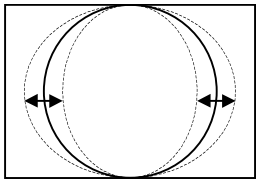


Fig.3

Pin Phase
Adjust the Pin Phase so that the picture is symmetrical top and bottom.
The effect of this adjustment is shown in figure 4.

- When the volume up button is pressed, side pincushion changes.
- When the volume down button is pressed, side pincushion changes.
- Press the stand-by button on the remote control to store.

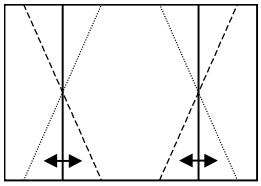


Fig.4

Pin Amp
Adjust the Pin Amplitude so that the picture is centred.
The effect of this adjustment is shown in figure 5.

- When the volume up button is pressed, side pincushion changes from pincushion to barrel shape.
- When the volume down button is pressed, side pincushion changes from pincushion to barrel shape.
- Press the stand-by button on the remote control to store.

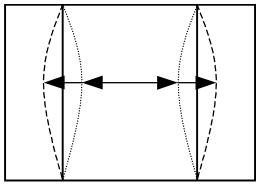


Fig.5

Corner Amplitude
Adjust the Corner Amplitude so that the picture is centred.
The effect of this adjustment is shown in figure 6.
Note: This adjustment affects to upper and lower sides.

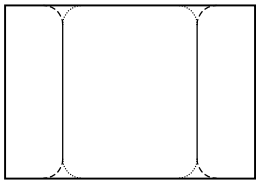


Fig.6

- When the volume up button is pressed, side pincushion changes from pincushion to

barrel shape.
- When the volume down button is pressed, side pincushion changes from pincushion to barrel shape.
- Press the stand-by button on the remote control to store.

Corner Symmetry

Adjust the Corner Symmetry so that the picture is centred.
The effect of this adjustment is shown in figure 7.
Note: This adjustment affects to upper and lower sides.

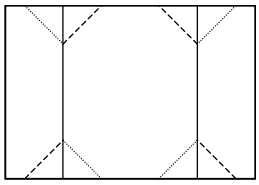


Fig.7

- When the volume up button is pressed, side pincushion changes from pincushion to barrel shape.
- When the volume down button is pressed, side pincushion changes from pincushion to barrel shape.
- Press the stand-by button on the remote control to store.

Vertical Linearity

Adjust the Vertical Linearity so that the upper and lower parts of the picture are symmetrical.
The effect of this adjustment is shown in figure 8.

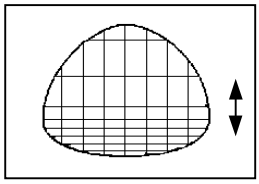


Fig.8

- When the volume up button is pressed, the upper picture scanning decreases and the lower picture scanning increases.
- When the volume down button is pressed, the upper picture scanning increases and the lower picture scanning decreases.
- Press the stand-by button on the remote control to store.

Vertical Angle

Adjust the Vertical Angle so that the picture is centred.
The effect of this adjustment is shown in figure 9.

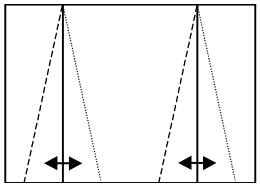


Fig.9

- When the volume up button is pressed, side pincushion changes, specially the lower picture.
- When the volume down button is pressed, side pincushion changes, specially the lower picture.
- Press the stand-by button on the remote control to store.

Vertical Bow

Adjust the Vertical Amplitude so that the picture is centred.
The effect of this adjustment is shown in figure 10.

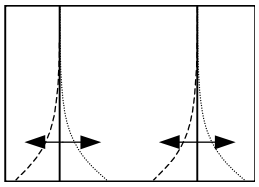


Fig.10

- When the volume up button is pressed, side pincushion changes from pincushion to barrel shape, specially the lower picture.
- When the volume down button is pressed, side pincushion changes from pincushion to barrel shape, specially the lower picture.
- Press the stand-by button on the remote control to store.

Vertical Amplitude

Adjust the Vertical Amplitude so that the picture is over-scanned.
The effect of this adjustment is shown in figure 9.

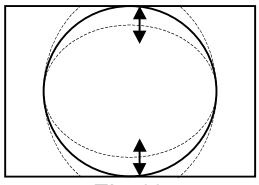


Fig.11

- When the volume up button is pressed, the vertical size of the picture increases.

- When the volume down button is pressed, the vertical size of the picture decreases.
- Press the stand-by button on the remote control to store.

S Correction

Adjust the S Correction so that the picture symmetrical between the top, centre and bottom.
The effect of this adjustment is shown in figure 12.

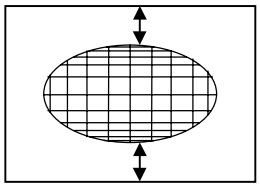


Fig.12

- When the volume up button is pressed, the top and bottom scanning increases and the centre scanning decreases.
- When the volume down button is pressed the top and bottom scanning decreases and the centre scanning increases.
- Press the stand-by button on the remote control to store.

Vertical Shift

Adjust the Vertical Shift so that the picture is centred.
The effect of this adjustment is shown in figure 13.

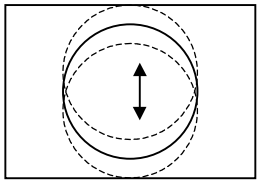


Fig.13

- When the volume up button is pressed, the picture moves down.
- When the volume down button is pressed, the picture moves up.
- Press the stand-by button on the remote control to store.

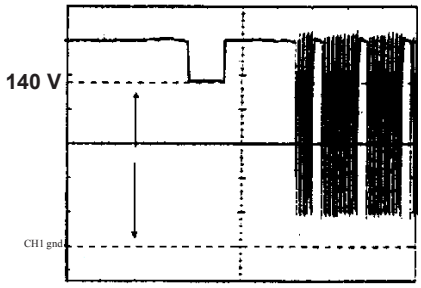
Colour Adjustments

The following adjustments should only be carried out when the CRT or IC801 are replaced.

G2, Cut Off and Gain Adjustments

1. Follow the procedure below to set the G2

1.1 Tune the set to the output of a signal generator (cross hatch pattern).
1.2 In the user menu, set contrast to 80/100 and brightness to 40/100.
1.3 Connect the oscilloscope to the red cathode and adjust G2 to read 140V on the sensor pulse as in the drawing:



NOTE:
Oscilloscope should be adjusted for vertical TV field trigger and synchronized with video signal.

2. Follow the procedure below to set the Cut Off.

2.1 Adjust G2.
2.2 Tune a white card.
2.3 Adjust colour to minimum.
2.4 Position colorimeter in the centre of screen.
2.5 Adjust brightness and contrast to obtain a luminance of ≈20 NITS.
2.6 Operate in Service Mode and select location RED CUT OFF, GREEN CUT OFF and BLUE CUT OFF, to obtain colour coordinates:

X=0.290 ± 0.015 Y=0.300 ± 0.015

To increase press volume-up button and to decrease press volume down button.

RED CUT OFF	alter «X» coordinate.
GREEN CUT OFF	alter «Y» coordinate.
BLUE CUT OFF	alter «X» and «Y» coordinate.

3. Follow the procedure below to set the GAIN.

3.1 Using brightness and contrast buttons, select a luminance of ≈120 NITS.
3.2 Operate in Service Mode and select location RED GAIN, GREEN GAIN and BLUE GAIN, to obtain colour coordinates:
X=0.290 ± 0.015 Y=0.300 ± 0.015
To increase press volume-up button and to decrease press volume down button.

RED CUT OFF	alter «X» coordinate.
GREEN CUT OFF	alter «Y» coordinate.
BLUE CUT OFF	alter «X» and «Y» coordinate.

3.3 Exit Service Mode and check colour coordinates «X» and «Y» at 20 and 120 NITS. It may be necessary to repeat procedure 2 and 3 of Colour Adjustments.

G2, Cut Off and Gain Adjustments (alternative method).

In the event off a Colorimeter not being available, please follow the following procedures to obtain correct G2 and Grey scale settings.

1. Tune the set to the output of a RF signal generator (cross hatch pattern).
2. In the user menu, set the picture levels to the FACTORY settings.
3. In the user menu, set the tint control to its central position.
4. Enter the service mode.
5. Set the ABL levels in the NVM by adjusting positions 60, 61, 62, 63, 64 and 65 on page 00 to read 80. Store each location by pressing the stand-by button on the remote control.
6. Adjust the G2 and grey scale as below.

   When adjusting the grey scale the following boxes will appear on the screen.

	(RED)	(GREEN)	(BLUE)
(GAIN)	**	**	**
(CUT OFF)	e.g. 70	**	**

   i. Using cross hatch pattern set the G2 so that the display in the Red cut off box reads between 60 and 80 as above.

   NB. When adjusting the grey scale, the figures displayed in the boxes are an indication of the CRT's performance only. The data to be adjusted is contained in the box at the bottom right corner of the picture.

   ii. Select a grey scale signal, then set the Red Cut-off level to 32 and the Red-Gain to 50.

   iii. Leave the Red Cut-off and Gain as above and adjust Green and Blue Cut-off and Gain to achieve correct grey scale tracking. As with all grey scale adjustments it will be necessary to readjust the settings to achieve good tracking.

Changing NVM Data

To change the data contained within the Non Volatile Memory, it is necessary to first select the page the data is stored in, then the position and finally to change the data itself. The procedure below outlines this process.

1. While on ALTER NVM PAGE, use the volume up/down buttons to change this data (data is shown in hexadecimal format).
2. Press the channel up button and ALTER NVM POSITION appears, use the volume up/down buttons to change this data (data is shown in hexadecimal format).
3. Press the channel up button and ALTER NVM VALUE appears, use the volume up/down buttons to change this data (data is shown in hexadecimal format).
4. Once this data has been set, press the standby button to store.
5. If another NVM value has to be changed, use the channel down button to select the page or position and repeat as necessary.

Note:
DO NOT change any NVM data, unless you have been advised to do so by a Sharp representative. If data is incorrectly changed, serious damage may occur to the receiver.

Contrast Adjustments

Three types of contrast levels can be varied as listed below:

- TELETEXT MIX MODE CONTRAST
- TELETEXT CONTRAST
- OSD CONTRAST

Use the volume up/down buttons to adjust to a suitable level, then press the standby button to store.

DVCO Adjustment (PAL)

Carry out the DVCO Adjustment (PAL) as shown below:
1. Receive a Phillips pattern signal.
2. While in the DVCO ADJUSTMENT (PAL) menu, press the standby button.
3. The adjustment will be carried out automatically and stored.

DVCO Adjustment (NTSC)

No adjustment required.

Auto Installation On/Off

To return the receiver to the original Auto Installation mode, using the volume up or down button, set the Auto Installation On/Off to On. This setting is automatically stored and when the receiver is turned on the next time it will start up in Auto Installation mode.

AGC Adjustment

To correctly align the Automatic Gain Control, follow the procedure outlined below:

1. Tune the set into a pattern generator on CH10.
2. Adjust the signal strength of the pattern generator to 57uV
3. Enter the service mode.
4. Enter the AGC Adjustment menu.
5. Press the standby button on the remote control.
6. The adjustment will be carried out and stored automatically.

AFT Adjustment (BG-I, SECAM L)

To correctly align the Automatic Fine Tune, follow the procedure outlined below:

1. Tune the set into a pattern generator on CH69.
2. Enter the service mode.
3. Enter the AFT Adjustment menu.
4. Press the standby button on the remote control.
5. The adjustment will be carried out and stored automatically.

AFT Adjustment (SECAM L')

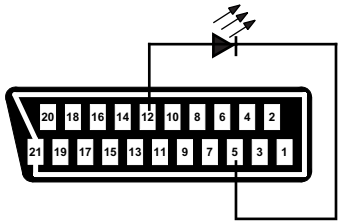
To correctly align the Automatic Fine Tune, follow the procedure outlined below:

1. Tune the set into a pattern generator on F04.
2. Enter the service mode.
3. Enter the AFT Adjustment menu.
4. Press the standby button on the remote control.
5. The adjustment will be carried out and stored automatically.

LED FLASHING CODES

This model is not provided with stereo led, so to let "flashing codes" for IC failures detection when the TV set does not work, we have answered with the next solution:

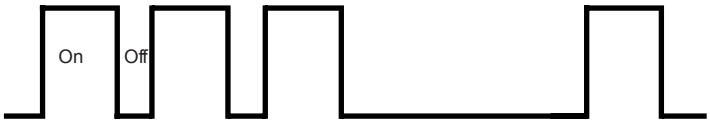
- The detection of failure will be made with an external LED.
- The output of the flashing code will be via AV1 (pin 12).
- Insert a generic led diode between pin 12 and ground (i.e. pin 5, 13 or 21) as shows the below picture.



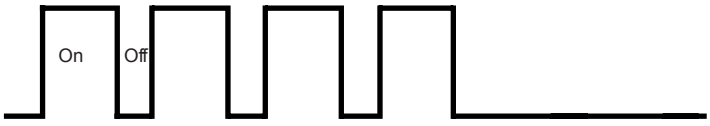
Follow the sequence according to the information below, as a guide to fault finding.

1. **Unable to read or write into NVM:** 66% ON, 33% OFF twice and OFF for a second.

2. **MSP failure:** 66% ON, 33% OFF for three times and OFF for a second.



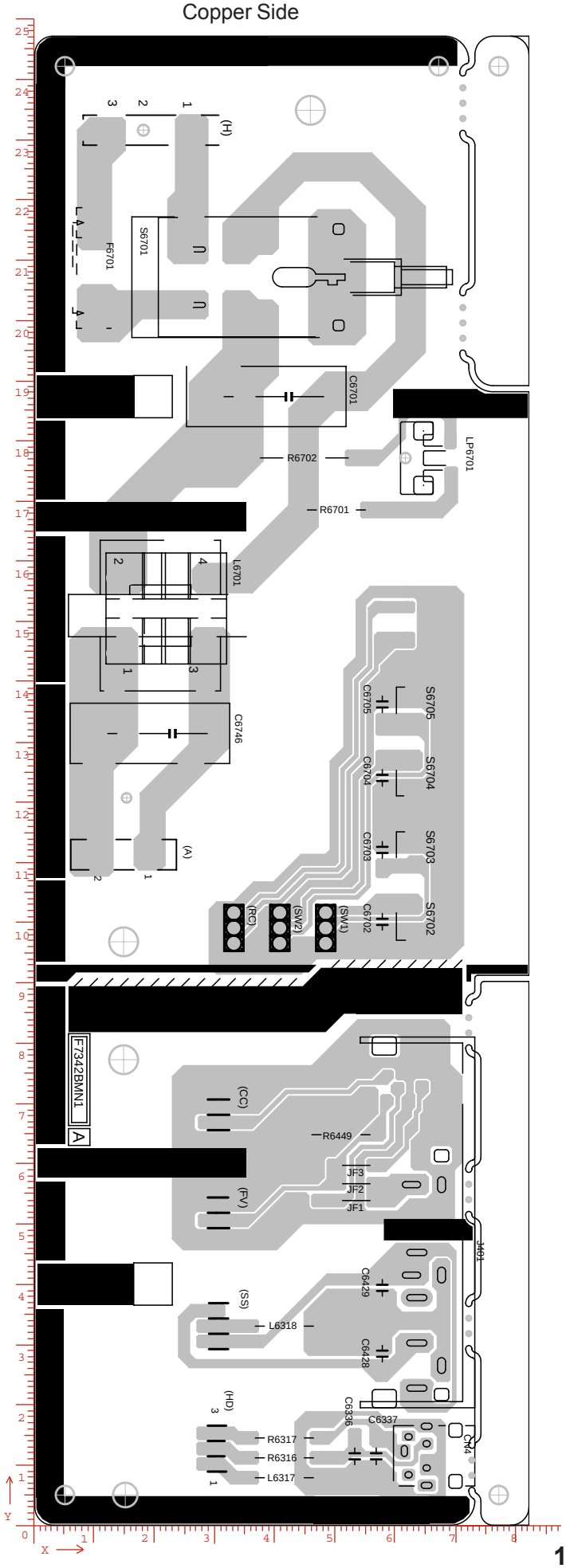
3. **VDP failure:** 66% ON, 33% OFF for four times and OFF for a second.



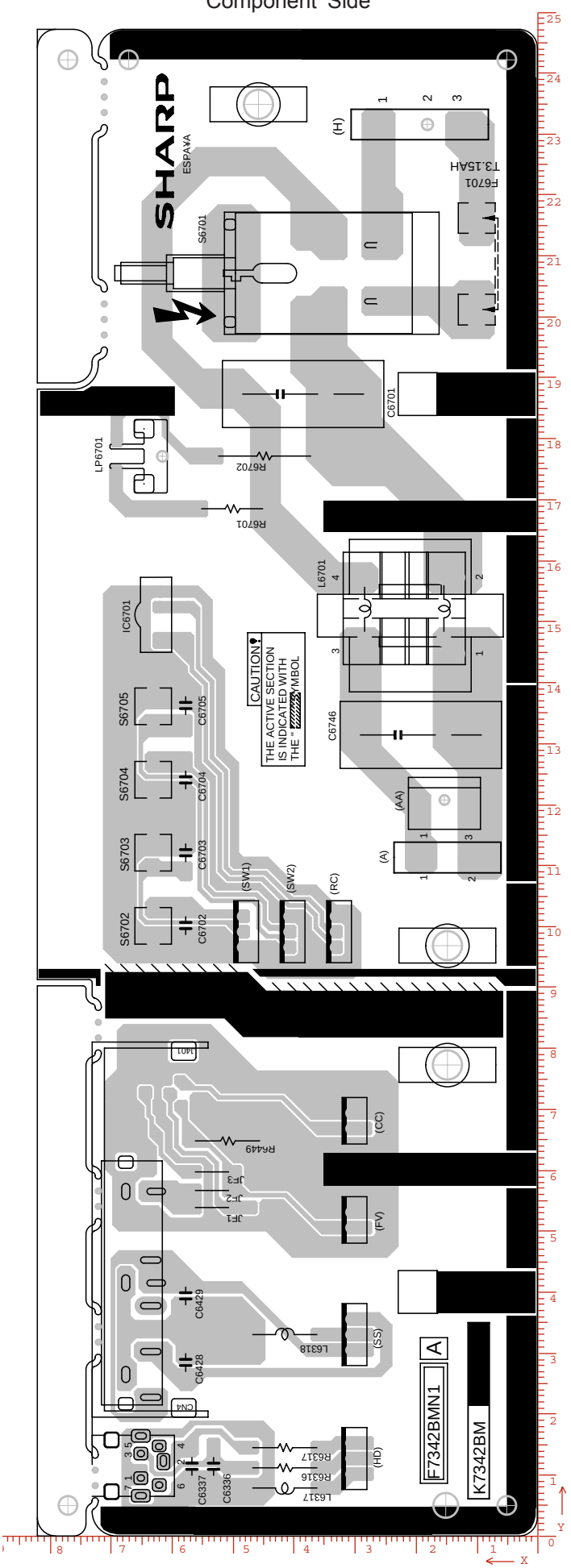
NOTE:
If you want to check that the system is working, open resistor R307 to avoid I_2C comunication with MSP. The TV set will flash three times and OFF for a second, showing MSP failure.
Then the system is working properly.

FRONTAL POWER SWITCH / AV UNIT (F7342N1A) PWB.

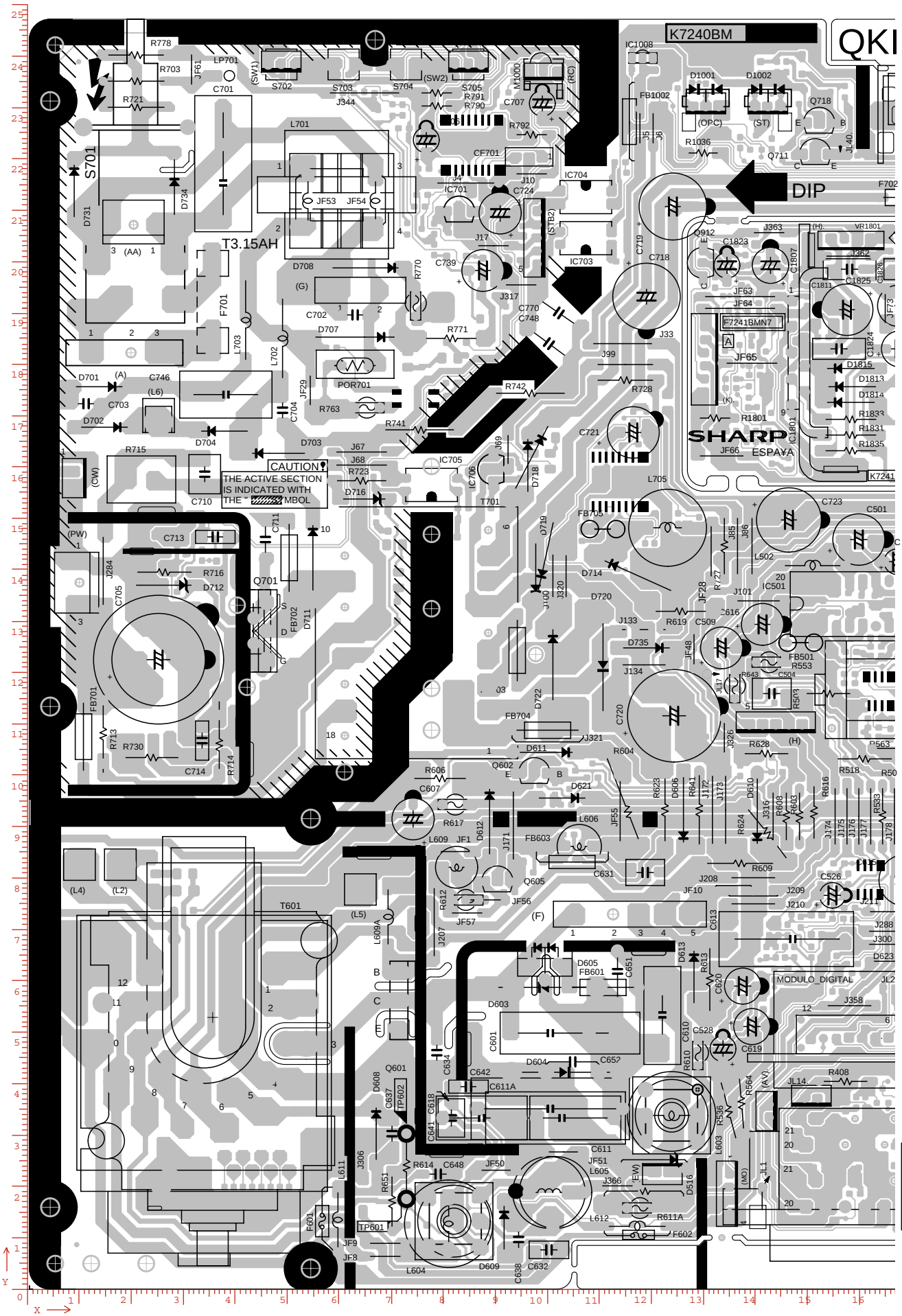
Copper Side



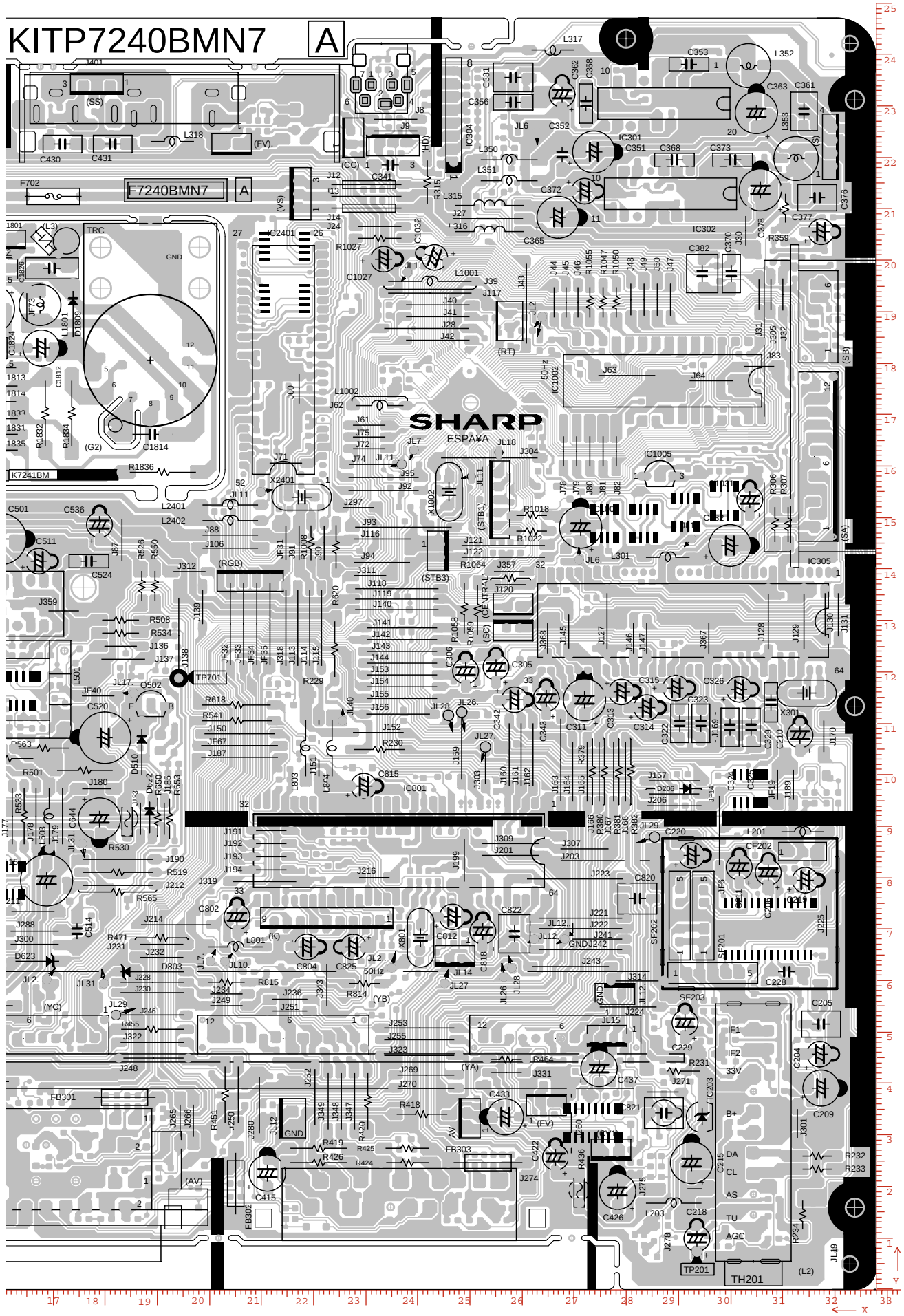
Component Side



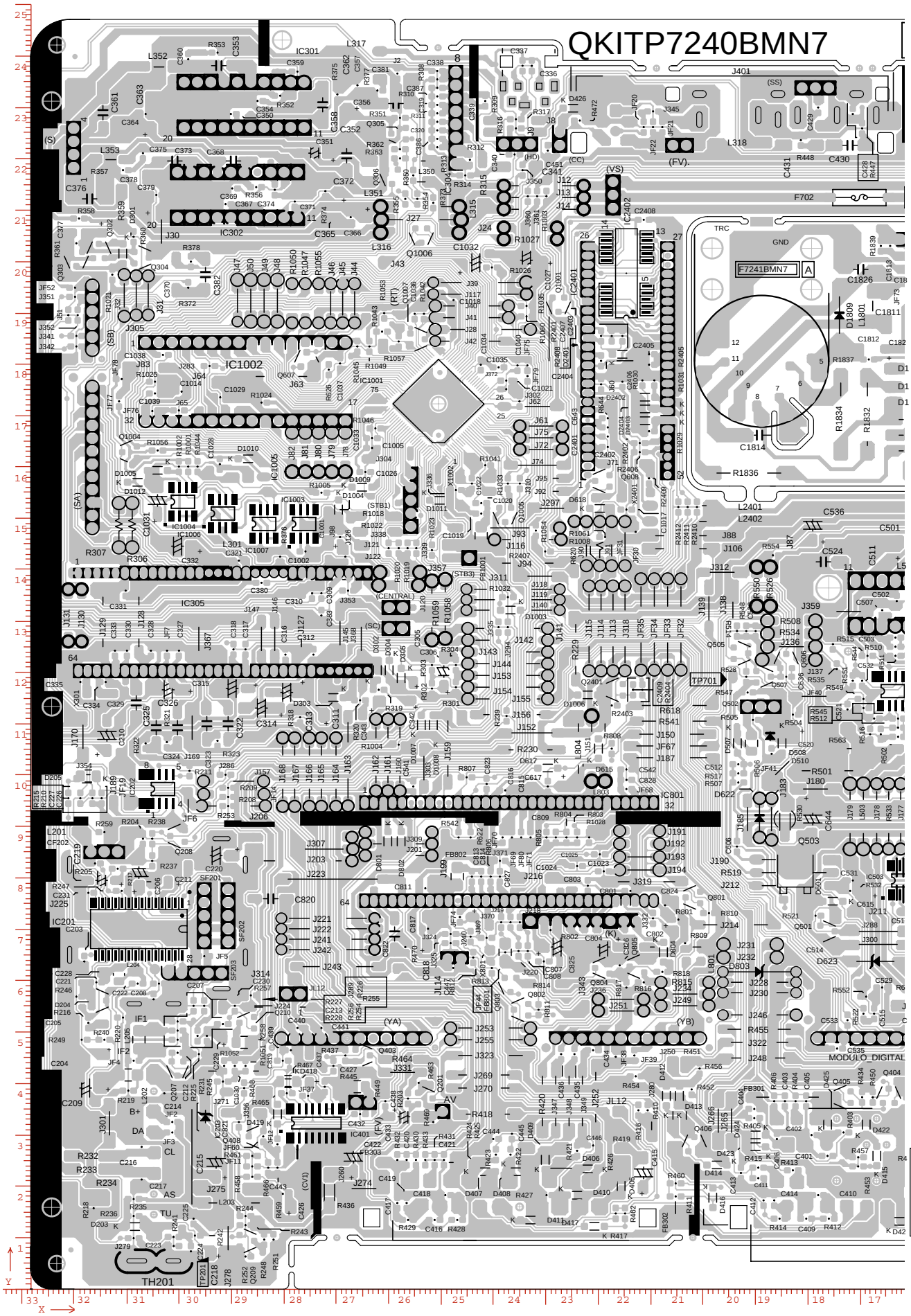
MOTHER UNIT (F7240N7A) PRINTED WIRING BOARD. Component side.



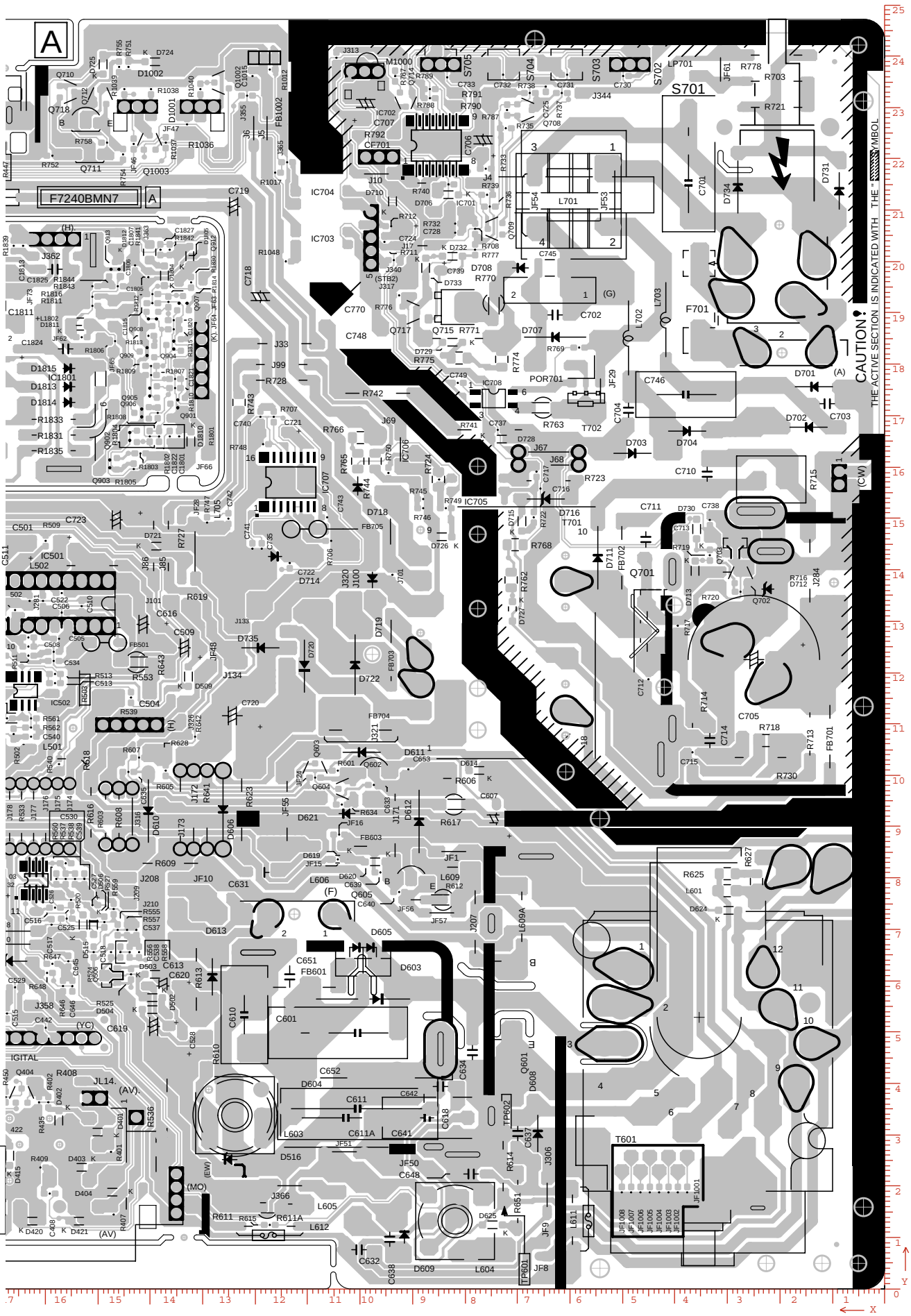
MOTHER UNIT (F7240N7A) PRINTED WIRING BOARD. Component side.



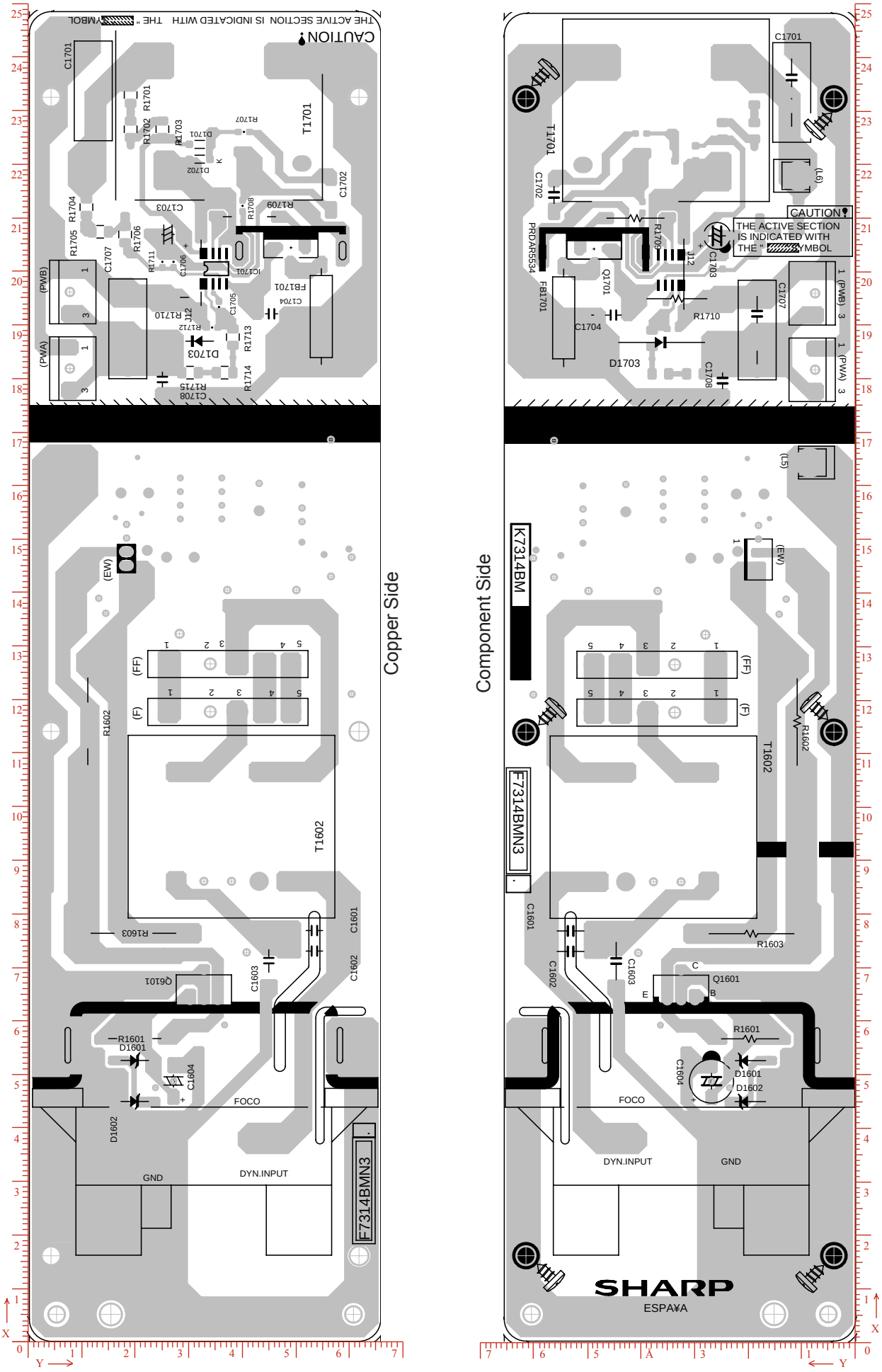
MOTHER UNIT (F7240N7A) PRINTED WIRING BOARD. Copper side.



MOTHER UNIT (F7240N7A) PRINTED WIRING BOARD. Copper side.

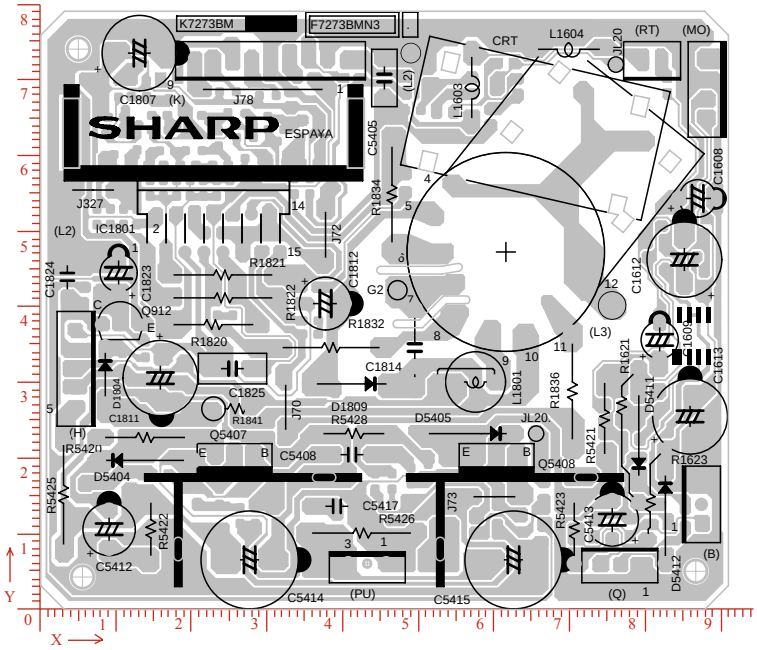


DYNAMIC FOCUS & PFC UNIT (F7314N3) PWB

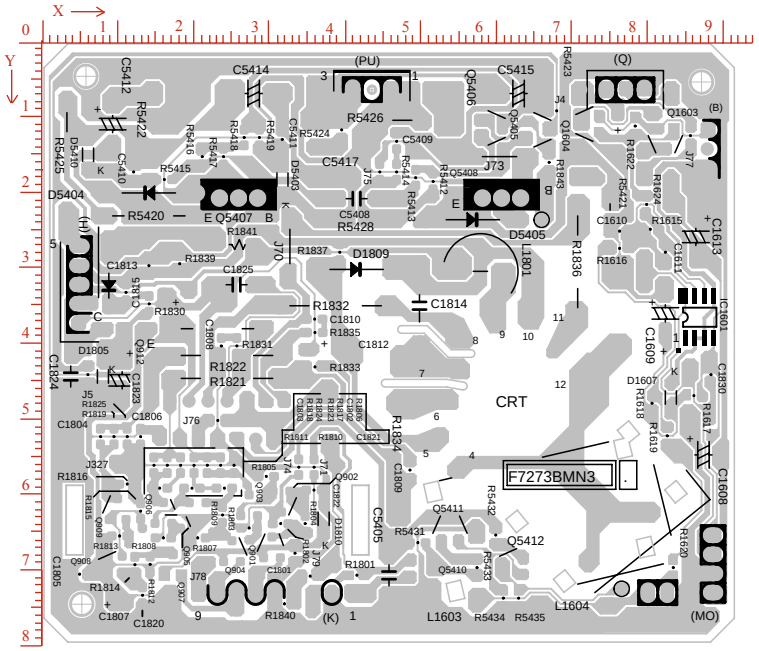


CRT MODULE UNIT (F7273N3) PWB.

Comp. Side



Copper Side



MOTHER UNIT (F7240N7A) PWB COMPONENT LOCATION TABLES.

Component Side.

Ref No	Xum	Yum
(A)	19558	182118
(AA)	20066	207010
(AV)	166649	12496
(AV).	142494	34620
(CC)	227076	223774
(CV1)	277114	26670
(CW)	8636	157734
(EW)	121920	22860
(F)	104902	72898
(FV)	264668	36322
(FV).	204216	222504
(G)	63754	194310
(G2)	181864	167894
(H)	143764	109728
(H).	158242	204216
(HD)	235204	222758
(K)	222504	71628
(K).	130048	180848
(L2)	314960	6858
(L3)	172466	203708
(L6)	24892	168656
(MO)	134874	18542
(PW)	9652	137414
(RGB).	236474	18542
(RT)	257606	188163
(S)	319786	221996
(SA)	316230	161798
(SB)	316230	188976
(SC)	258318	128524
(SS)	178308	233680
(STB1)	255473	153466
(STB2)	97790	204470
(STB3)	244348	143510
(VS)	216916	212852
AV	249428	33274
C1	24892	122428
C1001	271272	148082
C1027	233426	200152
C1031	303784	153416
C1032	243078	199644
C1807	142748	199136
C1811	157480	190500
C1812	167640	182880
C1814	188976	166116
C1823	134366	199136
C1824	155956	182880
C1825	157988	198374
C1826	169672	198374
C204	317246	45720
C205	317500	51562
C206	307340	81026
C209	317500	39116
C210	313436	107696
C211	301752	82042
C215	292608	24638
C218	293624	9906
C219	314452	79502

Ref No	Xum	Yum
C220	292608	84328
C228	310896	61722
C229	291338	51816
C305	255016	120904
C306	249174	120142
C311	272034	114554
C313	279146	116078
C314	283972	113030
C315	289560	116840
C322	290322	109982
C323	294386	109982
C324	299974	109220
C325	304038	109220
C326	301752	116586
C329	307848	114046
C332	299974	144526
C341	234696	218440
C342	258572	114554
C343	264668	114808
C351	273812	220980
C352	267716	220472
C353	292100	237998
C356	258318	230632
C358	272288	230378
C361	314198	228854
C362	267716	232156
C363	305054	228600
C365	266954	208280
C368	289306	219456
C370	300228	197358
C372	272034	213360
C373	300482	219456
C376	316738	212090
C377	317500	205486
C378	305816	213614
C381	258318	235458
C382	294640	197358
C415	211074	22606
C422	266446	25654
C426	278384	19050
C430	171704	222504
C431	181356	222504
C433	256794	33528
C437	274828	42926
C501	159766	145796
C504	143002	115824
C509	133350	124714
C511	167132	141478
C514	174498	69596
C520	179832	107188
C524	176784	141478
C526	154686	76581
C528	133604	46736
C536	178816	148590
C601	100330	49784
C607	73914	91440
C610	121920	53340

Ref No	Xum	Yum
C611	102616	33274
C611A	100330	35052
C613	147066	68072
C615	168656	79502
C616	141224	129286
C618	81280	33274
C619	139192	51054
C620	137414	58928
C631	118618	81026
C632	100076	7620
C634	78486	45974
C637	69850	30226
C638	94234	9652
C641	87122	33274
C642	84582	39370
C644	178816	91440
C648	78740	22352
C651	113284	60706
C652	104648	42164
C701	37338	215138
C702	62738	189484
C703	10922	172212
C704	48768	170942
C705	24892	122428
C706	76454	223520
C707	98806	230632
C710	33782	158496
C711	45466	145796
C713	35814	146304
C714	33274	106680
C718	118872	193040
C719	123952	210566
C720	124206	111506
C721	116332	166624
C723	146304	149606
C724	90678	209296
C739	87376	198120
C745	63754	198628
C746	37846	173990
C770	101092	186944
C802	205232	72390
C804	218694	66548
C812	246634	72390
C815	229616	97790
C818	252476	69596
C820	282194	75946
C821	287274	34290
C822	258572	69088
C825	227584	66548
CF202	313944	85090
CF701	96266	220218
CN3	232994	241985
D1001	130301	229997
D1002	142290	229997
D1809	173736	189484
D1813	158496	175514
D1814	158242	172466

Ref No	Xum	Yum
D1815	158242	179070
D510	186944	104394
D516	120396	23368
D603	98806	58674
D604	103378	42164
D605	99314	59944
D606	125984	93218
D608	66802	30226
D609	91440	11938
D610	140208	92964
D611	99568	104394
D612	88646	90932
D613	128016	60706
D621	102616	95504
D622	188976	91694
D623	166878	63754
D701	13462	175514
D702	14478	167640
D703	48006	162560
D704	37592	166878
D707	62738	185166
D708	64770	198628
D711	54610	142240
D712	25908	136906
D714	117856	142494
D716	64516	153670
D718	96012	160274
D719	97536	139954
D720	110490	120904
D722	100838	121412
D731	8636	213614
D734	27940	214376
D735	118872	124714
D803	188976	61722
F701	35306	192024
F702	169926	212344
FB1	35306	52832
FB1002	117602	227076
FB301	183642	37338
FB302	204978	20574
FB303	253492	24638
FB501	148590	125730
FB601	110490	58674
FB603	104521	86106
FB701	10414	107442
FB702	50038	142240
FB703	93980	124206
FB704	99822	108712
FB705	110490	147828
IC1002	287020	176530
IC1005	286512	157988
IC1008	118110	239471
IC1801	148082	182118
IC203	294640	33528
IC2401	214122	180594
IC2402	214376	197612
IC301	287274	230378

Ref No	Xum	Yum
J162	262127	103886
J163	267462	102870
J164	269748	100584
J165	272542	100584
J166	274828	100584
J167	277622	100584
J168	279908	100584
J169	297180	109220
J17	89408	202946
J170	318008	107442
J171	93218	90170
J172	131572	93218
J173	134112	93218
J174	155194	91948
J175	157480	91948
J176	159766	91948
J177	162052	91948
J178	166624	91948
J179	171704	91948
J180	178308	97282
J183	186690	91440
J185	191262	91440
J187	205740	103378
J189	312166	98044
J190	182372	83566
J191	211836	89154
J192	211836	86614
J193	211836	84074
J194	211836	81534
J199	248920	83312
J201	257810	84328
J203	276098	83312
J206	289306	93980
J207	77978	71374
J208	139446	80010
J209	139446	77470
J210	139446	74930
J211	166116	73406
J212	182372	78486
J214	193548	70866
J216	231648	80010
J221	271272	72136
J222	271272	70104
J223	270256	79756
J224	280416	54864
J225	318516	71628
J228	188976	59690
J230	188976	57658
J231	190754	67056
J232	190754	64516
J234	203200	57404
J236	215392	56388
J24	232664	206502
J241	271272	68072
J242	271272	66040
J243	269367	62738
J246	188976	53340

Ref No	Xum	Yum
J162	262127	103886
J163	267462	102870
J164	269748	100584
J165	272542	100584
J166	274828	100584
J167	277622	100584
J168	279908	100584
J169	297180	109220
J17	89408	202946
J170	318008	107442
J171	93218	90170
J172	131572	93218
J173	134112	93218
J174	155194	91948
J175	157480	91948
J176	159766	91948
J177	162052	91948
J178	166624	91948
J179	171704	91948
J180	178308	97282
J183	186690	91440
J185	191262	91440
J187	205740	103378
J189	312166	98044
J190	182372	83566
J191	211836	89154
J192	211836	86614
J193	211836	84074
J194	211836	81534
J199	248920	83312
J201	257810	84328
J203	276098	83312
J206	289306	93980
J207	77978	71374
J208	139446	80010
J209	139446	77470
J210	139446	74930
J211	166116	73406
J212	182372	78486
J214	193548	70866
J216	231648	80010
J221	271272	72136
J222	271272	70104
J223	270256	79756
J224	280416	54864
J225	318516	71628
J228	188976	59690
J230	188976	57658
J231	190754	67056
J232	190754	64516
J234	203200	57404
J236	215392	56388
J24	232664	206502
J241	271272	68072
J242	271272	66040
J243	269367	62738
J246	188976	53340

MOTHER UNIT (F7240N7A) PWB COMPONENT LOCATION TABLES.

Component Side.

Ref No	Xum	Yum
J248	189230	44958
J249	203200	55118
J250	205486	37846
J251	215392	54102
J252	220218	37338
J253	240284	50800
J255	240284	48514
J260	269494	32258
J265	194310	32765
J266	196850	32765
J269	241554	41656
J27	253492	208026
J270	241554	39116
J271	287020	38354
J274	264414	19558
J275	290576	19558
J278	290322	9906
J28	241681	186690
J280	209550	35814
J284	14224	139700
J288	166370	69596
J297	228600	151892
J30	303022	205740
J300	166370	67056
J301	312928	32258
J303	252984	101346
J304	253746	161544
J305	307848	193294
J306	64262	18288
J307	272034	85598
J309	257810	86614
J31	305562	193294
J311	230886	138684
J312	196088	139446
J314	282194	59944
J316	143256	91948
J317	94742	195326
J318	214630	128524
J319	210540	79248
J32	310134	193294
J320	103378	138684
J321	101600	108712
J322	188976	48006
J323	240284	45466
J326	133858	107188
J33	114300	183896
J331	257048	42164
J343	222504	59182
J344	64516	232664
J347	227838	36576
J348	225298	36576
J349	222758	36576
J357	257556	139446
J358	157988	55118
J359	171958	131826
J362	157734	200914
J363	142494	205486

Ref No	Xum	Yum
JF32	203962	129286
JF33	206502	129286
JF34	209042	129286
JF35	211582	129286
JF40	178562	115316
JF48	128016	124460
JF50	89916	23114
JF51	102870	26670
JF53	53594	211836
JF54	66802	211836
JF55	113792	93218
JF56	87884	75692
JF57	84328	73152
JF6	297942	89154
JF61	31242	237236
JF63	136906	193040
JF64	136906	190754
JF65	139192	180086
JF66	133350	162052
JF67	205740	105664
JF73	164846	190754
JF8	68580	6350
JF9	68580	8890
JL1	141224	19812
JL1.	237998	197612
JL10	292608	145796
JL10.	202946	63754
JL11	209804	154940
JL11.	250291	157911
JL11..	236880	160274
JL12	215900	33274
JL12,	262382	68072
JL12,,	268224	68072
JL12.	277876	57404
JL14	247142	64262
JL14.	150622	37084
JL17	130555	119634
JL17.	185420	115824
JL18	255574	162585
JL19	319786	11176
JL2	263906	188976
JL2.	168656	60198
JL2..	234950	62484
JL26	256540	60706
JL27	245110	59436
JL28	258064	62484
JL31	179705	59436
JL31.	175514	86614
JL40	225552	110490
JL40.	156210	223520
JL6	262890	224790
JL6.	271018	141732
JL7	239268	163068
JL7.	200152	63754
L1801	167386	191262
L201	313944	88900
L203	289179	16764

Ref No	Xum	Yum
JF32	203962	129286
JF33	206502	129286
JF34	209042	129286
JF35	211582	129286
JF40	178562	115316
JF48	128016	124460
JF50	89916	23114
JF51	102870	26670
JF53	53594	211836
JF54	66802	211836
JF55	113792	93218
JF56	87884	75692
JF57	84328	73152
JF6	297942	89154
JF61	31242	237236
JF63	136906	193040
JF64	136906	190754
JF65	139192	180086
JF66	133350	162052
JF67	205740	105664
JF73	164846	190754
JF8	68580	6350
JF9	68580	8890
JL1	141224	19812
JL1.	237998	197612
JL10	292608	145796
JL10.	202946	63754
JL11	209804	154940
JL11.	250291	157911
JL11..	236880	160274
JL12	215900	33274
JL12,	262382	68072
JL12,,	268224	68072
JL12.	277876	57404
JL14	247142	64262
JL14.	150622	37084
JL17	130555	119634
JL17.	185420	115824
JL18	255574	162585
JL19	319786	11176
JL2	263906	188976
JL2.	168656	60198
JL2..	234950	62484
JL26	256540	60706
JL27	245110	59436
JL28	258064	62484
JL31	179705	59436
JL31.	175514	86614
JL40	225552	110490
JL40.	156210	223520
JL6	262890	224790
JL6.	271018	141732
JL7	239268	163068
JL7.	200152	63754
L1801	167386	191262
L201	313944	88900
L203	289179	16764

Ref No	Xum	Yum
L2401	203962	152400
L2402	203962	149352
L301	288036	142240
L315	253746	210566
L316	253746	205486
L317	265938	240792
L318	192786	223012
L350	257556	219456
L351	257556	215392
L352	303530	237744
L353	312674	219710
L501	163322	116586
L502	150876	140716
L503	169164	91948
L603	123698	33782
L603A	123698	33782
L604	81788	13208
L604A	80772	12700
L605	100076	18796
L606	105918	86106
L609	82296	82042
L609A	69088	72390
L611	59436	13462
L612	117094	12192
L701	60172	211658
L701A1	59182	212852
L702	48768	184912
L703	41656	188468
L705	122936	148082
L801	204978	66548
L803	218440	105156
L804	223520	105156
LP701	38506	235991
M1000	98501	240461
POR701	62738	179578
Q2	71120	56134
Q502	188722	113284
Q601	71120	56134
Q602	97282	100330
Q605	90170	79248
Q701	45720	128016
Q701A1	45720	128016
Q711	151384	220726
Q718	152146	226822
Q912	129794	199644
R1008	219456	145034
R1018	261873	150368
R1022	261873	147320
R1027	232664	204216
R1036	129794	220980
R1047	275590	191770
R1050	278130	191770
R1055	273050	191770
R1058	248920	132334
R1059	251460	132029
R1801	132080	169418
R1831	158242	166116

Ref No	Xum	Yum
R1832	168402	170180
R1833	158242	169164
R1834	173482	170180
R1835	158242	163068
R1836	191008	158750
R229	224028	124460
R230	232664	104902
R231	289306	42418
R232	316738	25908
R233	316738	23368
R234	313944	14478
R306	308610	148590
R307	311150	148590
R315	241808	215138
R359	310642	210058
R408	157226	40386
R418	240792	34036
R419	220980	27432
R420	230378	36576
R424	237998	24638
R425	237998	27432
R426	220980	24638
R436	271018	19304
R451	202946	37846
R455	188976	50546
R464	257048	44704
R501	176022	100838
R503	153924	115824
R508	182880	130048
R518	160782	103124
R519	182372	81026
R526	186944	136652
R530	184150	91440
R533	164338	91948
R534	182880	127508
R536	136652	34798
R541	205232	110490
R550	189484	136652
R553	142494	121920
R563	168148	105156
R603	148336	91948
R606	79248	99314
R608	145796	91948
R609	136906	82804
R610	128778	45974
R611	118364	16510
R611A	117602	15748
R612	84074	75692
R613	131063	60198
R614	72644	23876
R616	151130	92710
R617	82042	94234
R618	205232	113538
R619	125476	131826
R620	224282	144272
R623	122428	93218
R628	141986	104140

Ref No	Xum	Yum
R641	129032	93218
R643	135890	117348
R651	69850	17018
R703	20574	234950
R713	14224	107950
R714	36576	105918
R715	21590	157480
R716	25908	139446
R721	20574	229870
R723	64008	157226
R727	133858	144526
R728	114808	176784
R730	23622	103378
R741	75184	167132
R742	96520	174244
R763	65024	171450
R770	74422	191770
R771	81280	184912
R778	20574	240030
R790	78486	230124
R791	78486	232664
R792	96774	224536
R814	229768	59436
R815	203200	59690
REF10	53695	-4166
REF1A	127000	164592
REF4	238252	166878
S701	20497	247015
S702	48514	238201
S703	60502	238201
S704	72517	238201
S705	84505	238201
SF201	294894	72644
SF202	290322	72644
SF203	296672	61468
T601	33655	51003
T701	74599	127635
TH201	304495	5486
X1002	245999	154940
X2401	217678	153924
X301	314706	115824
X801	240538	68326

MOTHER UNIT (F7240N7A) PWB COMPONENT LOCATION TABLES.

Copper Side.

Ref No	Xum	Yum
C1002	275590	143510
C1005	262890	163626
C1014	299212	174625
C1015	120396	230000
C1017	214376	151638
C1018	247345	192379
C1019	242062	150876
C1020	242062	152908
C1021	237286	175056
C1022	243840	156718
C1023	218694	81280
C1024	223774	82296
C1025	219456	84582
C1026	264160	158953
C1028	291922	160477
C1029	291846	173482
C1030	289052	43434
C1033	262890	165531
C1034	242138	179806
C1035	238760	179324
C1036	254762	189738
C1037	268986	180086
C1038	302768	181737
C1039	304292	174244
C1040	235153	179705
C1801	134366	165862
C1805	140208	196850
C1806	142748	199136
C1813	164084	202946
C1815	139446	191770
C1820	135382	188468
C1821	135128	177038
C1822	136144	165862
C1827	137922	202184
C203	317754	63754
C207	303530	59436
C208	304546	56388
C212	299974	45974
C213	299974	50292
C214	302514	38100
C216	306832	27686
C217	306832	21336
C221	315468	59690
C222	307594	59436
C223	300736	8382
C224	297434	7366
C225	296926	13716
C226	314452	95504
C227	316230	95504
C230	289052	55118
C231	316992	77089
C2401	217932	165862
C2402	217932	163830
C2403	215138	185420
C2404	219202	176022
C2405	210058	181864
C2406	215138	176530
C2407	217170	185420
C2408	211074	208026
C2409	213106	116586
C309	272542	135382
C310	274320	135382
C312	274066	123444
C316	279400	123444
C317	287020	124460
C318	289306	124460
C319	250444	230378
C320	250444	225425
C321	288290	141732
C327	299720	124206
C328	305054	124206
C330	309626	124206
C331	309880	135890
C333	311912	124206
C334	313690	118110
C335	318516	118110
C336	232410	237998
C337	234188	237998
C338	250444	236982
C339	250444	227076
C340	235712	220726
C350	289814	228600
C354	284734	231140
C357	265684	234188
C359	277114	236855
C360	297942	239268
C364	306070	228600
C366	266954	208534
C367	290830	211074
C369	289560	214122
C371	277622	211582
C374	281432	213868
C375	306578	220980
C379	304038	212852
C380	283972	137414
C383	272542	131063
C386	250444	223774
C387	250444	233680
C401	176022	25908
C402	179070	29972
C403	184150	36576
C404	189992	35052
C405	180086	36576
C406	185674	29210
C408	159004	18542
C409	180086	13716
C410	177800	18288
C411	189230	21590
C412	188214	17272
C413	192532	22606
C414	186182	17272
C416	250952	13462
C417	258064	16764
C418	248920	18288
C419	256286	16764
C420	256286	25146
C421	249174	25146
C427	270256	43434
C428	171196	228600
C429	177800	229870
C432	265176	34036
C434	220726	46482
C435	224282	45720
C436	226822	45720
C438	260349	36576
C439	278384	46482
C440	277114	50800
C441	272542	50800
C442	159766	50800
C443	280924	23622
C444	239776	29210
C445	236220	30226
C446	220726	27940
C447	247396	62484
C451	229362	221488
C502	162814	133858
C503	163068	126746
C505	157226	126492
C506	156718	131572
C507	165608	132080
C508	158242	123952
C510	152908	132842
C512	193040	102108
C513	157988	117856
C515	167132	53594
C516	157988	74168
C517	158648	70866
C518	147320	65531
C521	172212	112776
C522	156718	135382
C523	189738	128016
C525	155752	72034
C527	150876	74676
C529	165608	58674
C530	155956	82804
C531	171196	79502
C532	169418	118364
C533	172212	52324
C534	158242	122174
C535	174193	46786
C537	142494	69850
C538	143764	65531
C539	152400	79756
C540	162560	107442
C541	255016	97790
C542	214376	101092
C606	193294	86106
C617	229362	97790
C633	97282	98044
C635	144018	100584
C636	183896	119126
C639	96012	81026
C640	92456	77216
C643	217932	167640
C645	155448	63754
C646	154686	58928
C653	90678	101092
C712	44958	118618
C715	36576	104394
C716	65531	155702
C717	66294	159004
C722	113284	141224
C725	64516	233934
C728	81788	205486
C730	49784	235966
C731	60452	236220
C732	72644	236220
C733	83312	235712
C735	118618	144018
C737	73660	167132
C738	33274	149606
C740	118872	169672
C741	120396	144018
C742	124968	149860
C743	106172	150114
C749	81280	176276
C801	213614	77470
C803	221742	78486
C807	230124	63754
C808	233172	65786
C809	227838	87884
C811	252730	77978
C813	243840	80264
C814	242062	80264
C816	237490	97028
C817	252222	70104
C819	279908	44450
C823	241046	98298
C824	207010	74676
C826	215646	62992
C827	238506	80264
C828	214376	99060
D1003	236474	132080
D1004	269240	151638
D1005	303784	159258
D1006	221742	115570
D1007	253492	109728
D1008	251206	109728
D1009	264795	156006
D1010	286512	161544
D1011	249986	153466
D1012	307594	156972
D1804	137160	197104
D1805	132334	200914
D1810	132080	164846
D1811	153162	187706
D1812	145542	198882
D203	308102	12192
D204	314960	56134
D205	317246	99314
D2401	215138	181864
D2402	210820	173482
D2403	210820	168910
D2404	210820	171196
D301	310388	201422
D302	261873	120396
D303	270256	115062
D304	259588	120396
D305	257302	118872
D401	149860	30480
D402	157226	32765
D403	152908	23622
D404	147066	18796
D405	215392	20066
D406	221742	23368
D407	241300	22860
D408	235458	22860
D409	229870	25146
D410	223774	18288
D411	232664	13462
D412	206756	37592
D413	204216	37592
D414	197104	24130
D415	166624	25908
D416	197866	17780
D417	220472	12192
D418	278892	40132
D419	280924	34036
D420	162306	13208
D421	153416	13208
D422	168656	32004
D423	189738	27686
D424	189738	29972
D425	176022	32004
D426	224536	229743
D502	139446	56642
D503	138938	61214
D504	139446	54356
D506	150622	70866
D507	193167	106172
D508	184658	106172
D509	132588	119126
D515	152654	70866
D601	175006	75438
D614	77216	100838
D615	219710	105156
D617	229362	101346
D618	219456	151892
D619	103632	83566
D620	97028	83058
D624	29718	73660
D625	74676	12446
D706	83058	212852
D710	93726	211582
D713	36068	139700
D715	69088	149352
D721	138684	144526
D724	138938	238760
D725	148844	238252
D726	84328	146304
D727	70866	131826
D728	72898	165354
D729	82296	184150
D730	35814	147828
D732	82296	200914
D733	87376	198628
D801	259842	87122
D802	257302	87122
D804	207264	65531
FB1001	242062	146558
FB801	237490	65531
FB802	246634	80264
IC1001	250190	172212
IC1003	275844	148844
IC1004	298958	153162
IC1006	291338	150876
IC1007	283464	148844
IC201	307340	70104
IC202	302768	97282
IC401	273558	32258
IC502	163576	116332
IC503	161544	79502
IC702	85344	222504
IC707	113030	156972
IC708	74422	173228
J126	267970	142494
J2	258064	236474
J218	234696	71374
J219	236474	71374
J220	234950	65786
J240	244094	68580
J279	308356	9906
J281	160274	133858
J283	293878	179578
J286	290830	100076
J289	296926	55118
J294	236982	128778
J302	234746	172720
J310	234696	156718
J313	104394	239522
J324	247904	69088
J325	247904	67310
J332	209296	72136
J335	238760	128778
J336	246888	155448
J338	259715	144145
J339	254431	144145
J340	93472	200152
J341	319278	185420
J342	319278	183388
J345	209296	229108
J350	234188	217678

MOTHER UNIT (F7240N7A) PWB COMPONENT LOCATION TABLES.

Copper Side.

Ref No	Xum	Yum
J351	319532	193040
J352	319024	189484
J353	267462	135890
J354	316992	99822
J355	121412	232156
J356	288290	32512
J360	233172	212598
J361	231394	212598
J365	113792	219202
J369	241046	68326
J370	238252	71374
J371	238506	83312
J372	237286	176733
J51	320802	189484
J65	299720	170942
J701	93726	138938
J98	268986	146304
JF1001	37592	18796
JF1002	39370	18796
JF1003	41148	18796
JF1004	42926	18796
JF1005	44704	18796
JF1006	46482	18796
JF1007	48260	18796
JF1008	50038	18796
JF11	285750	23876
JF12	280924	28194
JF15	104140	83566
JF16	103886	88392
JF2	300990	32512
JF20	211074	226060
JF21	207518	226060
JF22	209296	226060
JF24	108458	99466
JF3	300990	30480
JF30	212598	147320
JF37	275082	37592
JF38	216408	45212
JF39	212852	45466
JF4	308356	44450
JF41	186690	104140
JF44	237490	65531
JF46	143002	222758
JF47	132842	226568
JF5	294894	64770
JF52	319532	194818
JF60	283616	29718
JF62	152908	185166
JF68	214376	97282
JF69	236220	87884
JF7	302006	124206
JF70	237998	87884
JF71	232664	87884
JF74	246126	72390
JF75	233248	179705
JF76	304800	170815
JF77	311150	172720
JF78	310642	177038
JF79	233248	177622
JF80	234442	87884
L1802	153162	187706
L202	309372	41656
L204	311150	61214
L205	307340	48514
L601	29972	77470
Q1001	227330	191516
Q1002	126238	234696
Q1003	139954	223012
Q1004	309118	162814
Q1005	237490	150622
Q1006	253492	204978
Q1007	254203	184785
Q201	252730	37084
Q207	299974	42926
Q208	299974	88138
Q209	286766	9398
Q210	286766	51816
Q2401	216408	116586
Q302	314960	201930
Q303	319278	200406
Q304	306832	200660
Q305	257810	224790
Q306	259080	216408
Q403	264668	45466
Q404	164338	37592
Q405	172974	37338
Q406	201422	28194
Q408	284988	29718
Q501	176022	69596
Q503	182118	80518
Q505	192532	123698
Q506	147828	60960
Q507	188214	119126
Q603	108458	100838
Q604	102616	97282
Q606	183896	122174
Q607	275336	180848
Q608	218948	157226
Q702	27432	138684
Q703	28448	144780
Q708	68580	229362
Q709	74168	206248
Q710	155702	232918
Q712	149352	231902
Q714	91186	231394
Q715	81280	191008
Q717	90424	189992
Q801	201676	76200
Q802	234442	54356
Q803	236474	59182
Q804	218948	62484
Q805	212344	62738
Q901	134620	172212
Q902	143764	165862
Q903	147574	160528
Q904	135382	183642
Q905	139954	174498
Q906	141478	170434
Q907	133604	191770
Q908	139446	188722
Q909	140462	182372
Q913	146558	198374
R1	84836	157480
R1001	297942	160020
R1002	299720	160020
R1003	229616	212598
R1004	257810	105918
R1005	272542	154940
R1012	117094	237236
R1017	116078	217170
R1019	256108	144145
R1020	257810	144145
R1021	312420	197358
R1023	251460	143764
R1024	283972	172466
R1025	304292	176530
R1026	240030	198755
R1028	221488	87884
R1029	210058	166878
R1030	211328	176784
R1031	209042	176784
R1032	236982	134620
R1033	236982	156718
R1035	233426	191262
R1037	136906	223012
R1038	139700	233426
R1039	144780	233426
R1040	130301	233426
R1041	241300	160274
R1042	252984	189738
R1043	260984	186258
R1044	296164	160020
R1045	265684	183388
R1046	262255	167436
R1048	114046	199898
R1049	263398	183388
R1051	287020	43434
R1052	291084	43434
R1053	260553	189865
R1054	231648	147574
R1056	303784	163144
R1057	257810	184353
R1060	233426	189230
R1061	218440	146304
R1802	138176	165862
R1803	141732	162560
R1804	139954	165862
R1805	143002	159512
R1806	146558	184404
R1807	139700	177800
R1808	138430	170434
R1809	139700	179578
R1810	135128	175260
R1811	150876	191262
R1812	139446	193548
R1813	140208	185420
R1814	136398	192024
R1815	135382	186690
R1816	150876	193040
R1830	132080	195834
R1837	168148	180848
R1839	165862	202946
R1841	139954	201676
R1842	136144	202184
R1843	150876	195072
R1844	146050	195072
R203	256032	37084
R204	306578	87630
R205	315722	82804
R208	290322	95758
R209	290322	97536
R210	318516	95504
R211	297688	100838
R215	320802	95504
R216	316992	51816
R217	311404	81788
R218	315976	15748
R219	309372	38608
R220	310388	52832
R225	295910	45720
R226	294894	55118
R227	299974	52070
R228	299974	48514
R235	308356	17526
R236	308356	14224
R237	304800	83312
R238	304800	87630
R239	237236	111506
R240	313944	48514
R2401	219202	185420
R2402	211836	164592
R2403	217170	113538
R2404	211328	116586
R2405	210058	179832
R2406	211836	162814
R2407	229870	143510
R2408	219202	180594
R2409	210058	157734
R241	300736	10160
R2410	200914	152146
R2411	202692	152146
R2412	204470	152146
R242	296672	10414
R243	287020	12446
R244	287020	14224
R245	291338	40386
R246	319278	56896
R247	310642	77470
R248	283464	9652
R249	318262	48514
R251	281686	9652
R252	287020	6350
R253	290322	93980
R254	294386	49276
R255	291338	51562
R256	296164	49276
R257	286004	57150
R258	287274	48006
R259	313944	88900
R301	246888	117094
R302	251460	116840
R303	251460	121412
R304	246888	121412
R308	250444	235331
R309	241300	231140
R310	250444	232029
R311	250444	228727
R312	244221	219710
R313	250444	222123
R314	245110	216662
R316	235458	225806
R317	235458	227584
R318	276606	111252
R319	261619	116586
R320	265176	114554
R321	302006	106426
R322	306070	106172
R323	292354	106680
R350	255016	216662
R351	257556	227838
R352	280416	232156
R353	292354	240538
R354	254254	212090
R355	256540	212090
R356	284988	214376
R357	310388	217678
R358	318770	208280
R360	308356	204724
R361	319278	203454
R362	257556	221742
R363	257556	219964
R372	297942	194818
R373	251206	211328
R374	271780	213614
R375	269494	232410
R376	280416	142494
R377	261873	233172
R378	297434	199898
R401	147320	26670
R402	159258	36322
R403	172974	30480
R404	182118	36576
R405	189992	33274
R406	186182	36576
R407	146812	14478
R409	160782	23622
R410	210312	34798
R411	204978	18034
R412	175768	13716
R413	182626	23114
R414	185166	13716
R415	189230	23622
R416	212090	34798
R417	216408	14732
R421	223774	26924
R422	236474	26162
R423	239268	26162
R427	229616	18288
R428	246634	13462
R429	256032	13462
R430	254508	25146
R431	250952	25146
R432	258064	25146
R433	252730	25146
R434	169418	37338
R435	161036	36322
R437	267970	45466
R445	271907	39370
R447	169418	225806
R448	181102	223520
R449	265684	39370
R450	167386	37338
R452	201930	38862
R453	170180	23876
R454	212598	41402
R456	200406	42926
R457	170180	25654
R458	285750	21844
R459	279908	18542
R460	204978	20574
R461	285750	25908
R462	214630	14732
R463	254000	40132
R465	279146	38100
R466	282702	23622
R467	278892	40386
R468	287274	39116
R469	251206	32512
R470	256540	66548
R472	223266	227330
R502	165862	107950
R504	182626	111760
R505	190246	110744
R506	190500	106172
R507	193040	98552
R509	159766	145542
R510	163068	124968
R511	163068	123190
R512	167132	110998
R513	157988	119634
R514	193294	128016
R515	175006	125476

MOTHER UNIT (F7240N7A) PWB COMPONENT LOCATION TABLES.

Copper Side.

Ref No	Xum	Yum
R516	167894	107950
R517	193040	100330
R520	154940	75692
R521	178308	72644
R522	169164	53594
R524	150622	65531
R525	143510	61214
R527	148590	71374
R528	191516	119126
R532	171704	77470
R535	174244	120650
R537	155956	79756
R538	154178	79756
R539	143510	115062
R540	157226	102108
R542	246380	87884
R544	168402	123190
R545	169164	113030
R547	191262	116078
R548	191516	128016
R549	169164	114808
R551	171196	118364
R552	168656	56896
R554	186436	142748
R555	146050	69850
R556	145542	65531
R557	144272	69850
R558	141986	65531
R559	146812	73914
R560	157734	79756
R561	162560	110998
R562	162560	109220
R601	104140	100838
R605	136906	100838
R607	141986	103378
R615	117094	12446
R622	244094	87884
R625	29972	80772
R626	271145	178866
R627	24384	79248
R634	103378	94234
R642	131318	107442
R644	217932	169418
R646	156464	58928
R647	158496	63246
R648	159512	61468
R706	105410	145542
R707	116332	169672
R708	77978	206248
R711	95250	203708
R712	93980	206756
R717	39370	129032
R718	22606	106680
R719	33274	142748
R720	27432	135636
R722	66802	150114
R724	84963	157480

Ref No	Xum	Yum
R732	81788	207264
R733	75946	217932
R735	72136	225806
R736	75184	210566
R737	61468	232664
R738	67564	232664
R739	75692	212852
R740	83058	214884
R743	122936	172466
R744	97028	161036
R745	87884	153670
R746	87884	151892
R747	129032	149098
R748	118364	164338
R749	83566	151892
R750	94488	158750
R751	144018	237744
R752	158496	220472
R754	145034	220726
R755	145796	237744
R758	148082	223012
R762	71120	137922
R765	100330	161036
R766	99822	165608
R767	93218	235966
R768	70358	144780
R769	58166	183134
R774	72898	180848
R775	81026	181102
R776	92456	193294
R777	77978	202184
R787	71882	229362
R788	86614	231648
R789	86614	233426
R801	204470	71882
R802	228854	69850
R803	223774	87884
R804	225806	87884
R805	229616	87884
R806	240284	80264
R807	244856	99568
R808	217170	105156
R809	203200	67310
R810	198628	73152
R811	231140	54356
R812	243586	64516
R813	240030	62484
R816	211074	59690
R817	214376	58674
R818	207518	61722
T702	56896	173228

POWER / AV UNIT (F7342N1A) PWB COMPONENT LOCATION TABLES

Component side:

Ref_No	Xum	Yum
(A)	111252	14732
(AA)	120650	15240
(CC)	68072	30480
(FV)	51816	30480
(H)	231394	18034
(HD)	12700	30480
(RC)	99060	33020
(SS)	33020	30480
(SW1)	99060	48260
(SW2)	99060	40640
C6336	11430	53086
C6337	11430	56642
C6428	28448	57658
C6429	39370	57658
C6701	187198	42164
C6702	100076	57658
C6703	112014	57658
C6704	123952	57658
C6705	136144	57658
C6746	131318	22860
CN4	11506	72999
F6701	208534	9906
IC6701	151003	65989
J401	72491	72999
JF1	53848	53340
JF2	56642	53340
JF3	59690	53340
L6317	7874	41402
L6318	33020	41402
L6701	152069	21818
L6701.	150876	20828
LP6701	177012	68986
R6316	11176	41402
R6317	14478	41402
R6449	64770	50800
R6701	168402	50038
R6702	177038	44704
S6701	207010	69291
S6702	99999	62992
S6703	111988	62992
S6704	124002	62992
S6705	135991	62992

Copper side:

No parts

DINAMIC FOCUS & PFC UNIT (F7314N3) PWB COMPONENT LOCATION TABLES:

Component side:

Ref No	Xum	Yum
(EW)	101600	46736
(F)	130048	38862
(FF)	121158	38862
(L5)	83566	56134
(L6)	30226	54102
(PWA)	66294	57150
(PWB)	52070	57150
C1601	170688	12192
C1602	174498	12192
C1603	176276	20574
C1604	198628	38100
C1701	14732	52832
C1702	33782	9144
C1703	41402	39116
C1704	56134	20066
C1707	58928	46482
C1708	68326	40132
D1601	194818	45212
D1602	202438	45212
D1703	61214	28956
FB1701	56642	10922
FOCO	213995	32512
J12	48514	33020
Q1601	183007	32512
Q1701	43840	16510
R1601	190754	45212
R1602	131826	53848
R1603	171196	45466
R1709	38100	24130
R1710	53086	31750
T1602	151384	27432
T1701	18034	29718

Copper side:

Ref No	Xum	Yum
C1705	54864	29718
C1706	46482	38100
D1701	24638	33274
D1702	27432	33274
IC1701	47752	30226
R1701	15494	45974
R1702	21844	45974
R1703	21844	40132
R1704	36322	54102
R1705	40894	51562
R1706	41402	46990
R1707	22352	25146
R1708	36068	25400
R1711	46482	40132
R1712	58674	30988
R1713	60452	27178
R1714	67056	28702
R1715	67056	35052

CRT UNIT (F7273N3) PWB COMPONENT LOCATION TABLES:

Component Side.

Ref No	Xum	Yum
(B)	88392	13970
(H)	4724	31978
(K)	32004	72898
(L5)	49530	73914
(MO)	89154	69088
(PU)	43688	6096
(Q)	77470	6096
(RT)	81788	72898
C1608	87884	54610
C1609	82804	35814
C1612	86106	46482
C1613	86868	25654
C1807	13208	73914
C1811	16002	30734
C1812	38100	40640
C1814	50038	34798
C1823	10414	44704
C1824	3556	44196
C1825	25654	32004
C5405	45974	70612
C5408	41656	20574
C5412	9144	10668
C5413	76454	11938
C5414	27940	6604
C5415	63246	6604
C5417	39624	13716
CRT	62230	47498
D1804	8636	31242
D1809	41656	29972
D5404	13970	19812
D5405	57150	23368
D5411	80010	23114
D5412	83566	12446
FF1	32765	-2794
G2	47752	42418
IC1801	23114	57912
J327	7010	55727
J70	32765	26924
J72	38100	49784
J73	60706	14986
J78	29718	69088
JL20	76962	72390
JL20.	66294	23368
L1603	57658	69342
L1604	70612	74422
L1801	58166	30226
Q5407	25908	18034
Q5408	60960	18034
Q912	10668	37846
R1621	80010	23114
R1623	81280	9144
R1623.	83566	21336
R1820	23114	37846
R1821	24384	44450
R1822	24384	41402
R1832	38862	34798
R1834	46990	55118
R1836	71120	28956
R1841	25654	26670
R5420	13970	22860
R5421	75438	25400
R5422	14732	10668
R5423	71374	10668
R5425	3048	15240
R5426	42926	10160
R5428	41910	23368
REF2	6248	62331

Copper Side.

Ref No	Xum	Yum
C1610	76708	24892
C1611	82804	27686
C1801	33426	67665
C1802	23520	55981
C1803	14630	55981
C1804	7518	52171
C1805	4724	70459
C1806	12852	52171
C1808	23622	40132
C1809	48768	56642
C1810	36068	36576
C1813	13970	29464
C1815	10922	33020
C1820	13106	73253
C1821	24028	59029
C1822	35966	59283
C1830	88900	43942
C5409	46990	12954
C5410	11938	17018
C5411	31750	12700
D1607	83566	46990
D1805	7874	44196
D1810	37236	63093
D5403	31750	18034
D5410	5842	14732
IC1601	87376	36322
J4	68326	8890
J5	5842	43942
J71	35991	56235
J74	33934	56235
J75	44729	17018
J76	23139	50038
J77	86131	12192
J79	35483	70713
Q1603	82804	12700
Q1604	72644	10668
Q5405	65786	11430
Q5406	59690	11176
Q5410	50292	69850
Q5411	54102	64516
Q5412	62484	69342
Q901	30378	66903
Q902	31648	60807
Q903	27330	61315
Q904	25044	67411
Q905	20472	62331
Q906	15900	62331
Q907	17170	69189
Q908	9042	69189
Q909	9804	61823
R1615	80797	24638
R1616	76708	27178
R1617	86614	46736
R1618	81026	47752
R1619	83058	52070
R1620	83845	69596
R1622	78765	10922
R1624	80289	21336
R1801	41681	70612
R1802	31521	63754
R1803	27330	64338
R1804	34798	63754
R1805	29616	57480
R1806	25298	55981
R1807	20497	65633
R1808	15900	65633
R1809	23774	62585
R1810	19710	59029
R1811	15392	59029
R1812	14147	69164
R1813	10058	65379
R1814	12090	69189
R1815	12877	62077
R1816	11074	58496
R1817	21742	55981
R1818	16408	55981
R1819	9321	52171
R1823	19989	55981
R1824	18186	55981
R1825	11074	52171
R1830	13995	34544
R1831	25679	40132
R1833	36093	42926
R1835	36093	38354
R1837	39395	27686
R1839	18059	29210
R1840	32029	74422
R1843	67310	15748
R5412	51841	18288
R5413	49530	17780
R5414	46990	17018
R5415	16027	18034
R5416	21082	14986
R5417	23901	14986
R5418	26670	12446
R5419	28702	12446
R5424	39649	11430
R5431	49809	66294
R5432	60198	65277
R5433	57683	69596
R5434	61214	73660
R5435	63246	73660

DESCRIPTION OF SCHEMATIC DIAGRAM

SAFETY NOTE:

1. DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.

2. SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

IMPORTANT SAFETY NOTE:

PARTS MARKED WITH «⚠ » ( ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

SERVICE PRECAUTION:

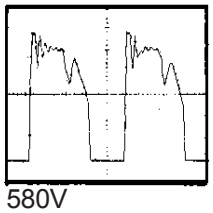
THE AREA ENCLOSED BY THIS LINE (–•–•–) IS DIRECTLY CONNECTED WITH AC MAINS VOLTAGE.
WHEN SERVICING THE AREA, CONNECT AN ISOLATING TRANSFORMER BETWEEN TV RECEIVER AND AC LINE TO ELIMINATE HAZARD OF ELECTRIC SHOCK.

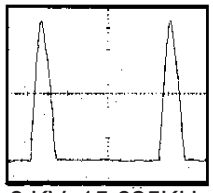
NOTE:

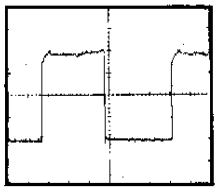
1. The unit of resistance «ohm»is omitted (K=1000 ohms. M= Megaohm).
2. All resistors —□— are SMD, 1/16 watt. unless otherwise noted.
3. All resistors —∿∿— are 1/8 watt. unless otherwise noted.
4. All capacitors are mF, unless otherwise noted (P= mmF).
5. The capacitor with Part No. RC-FZ9XXXBMNJ is designed to with stand 63V.
6. The capacitor with Part No. RC-FZ4XXXBMNJ is designed to with stand 50V.

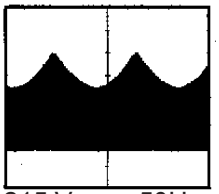
CAUTION
This circuit diagram is original one, therefore there may be light difference from yours.

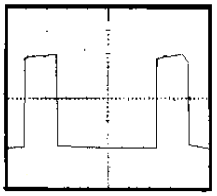
WAVEFORM MEASUREMENT CONDITION:
Colour bar generator signal of 70 dB from RF input.

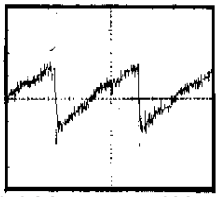
① 
580V

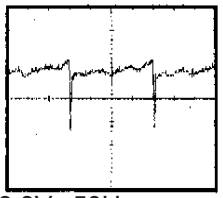
② 
1.3 KV 15.625KHz

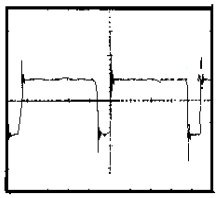
③ 
4 Vp-p 15.625KHz

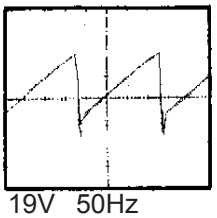
④ 
215 Vp-p 50Hz

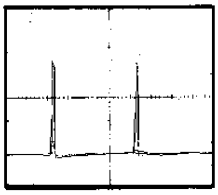
⑤ 
41 Vp-p 15.625KHz

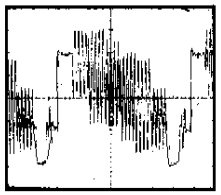
⑥ 
1.8 Vp-p 50Hz

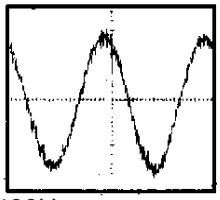
⑦ 
3.3V 50Hz

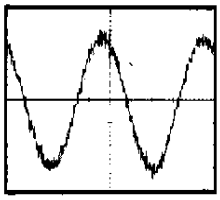
⑧ 
45 Vp-p 113 KHz FM

⑨ 
19V 50Hz

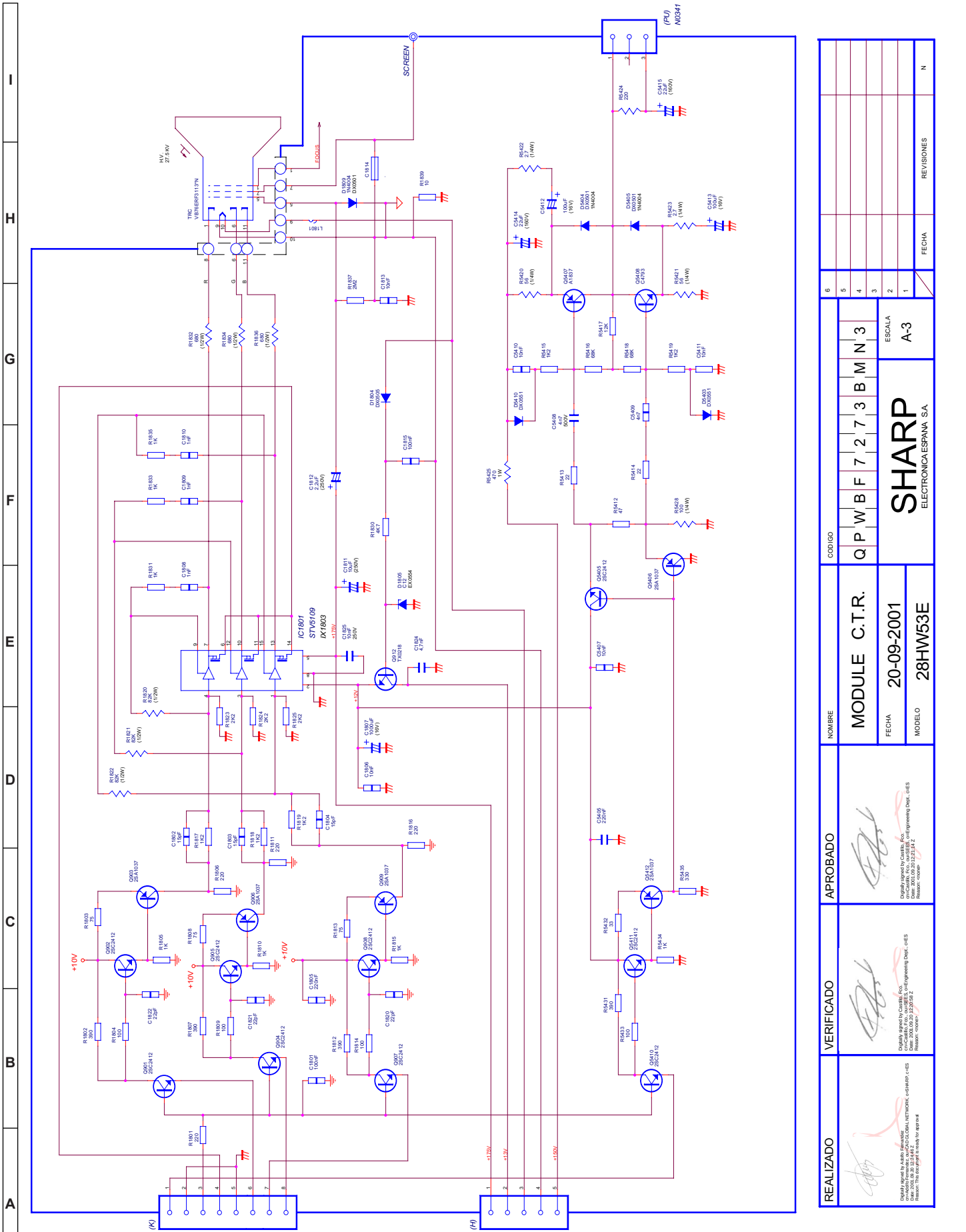
⑩ 
20.5 Vp-p 50Hz

⑪ 
1.15 Vp-p
15.625KHz

⑫ 
400Hz

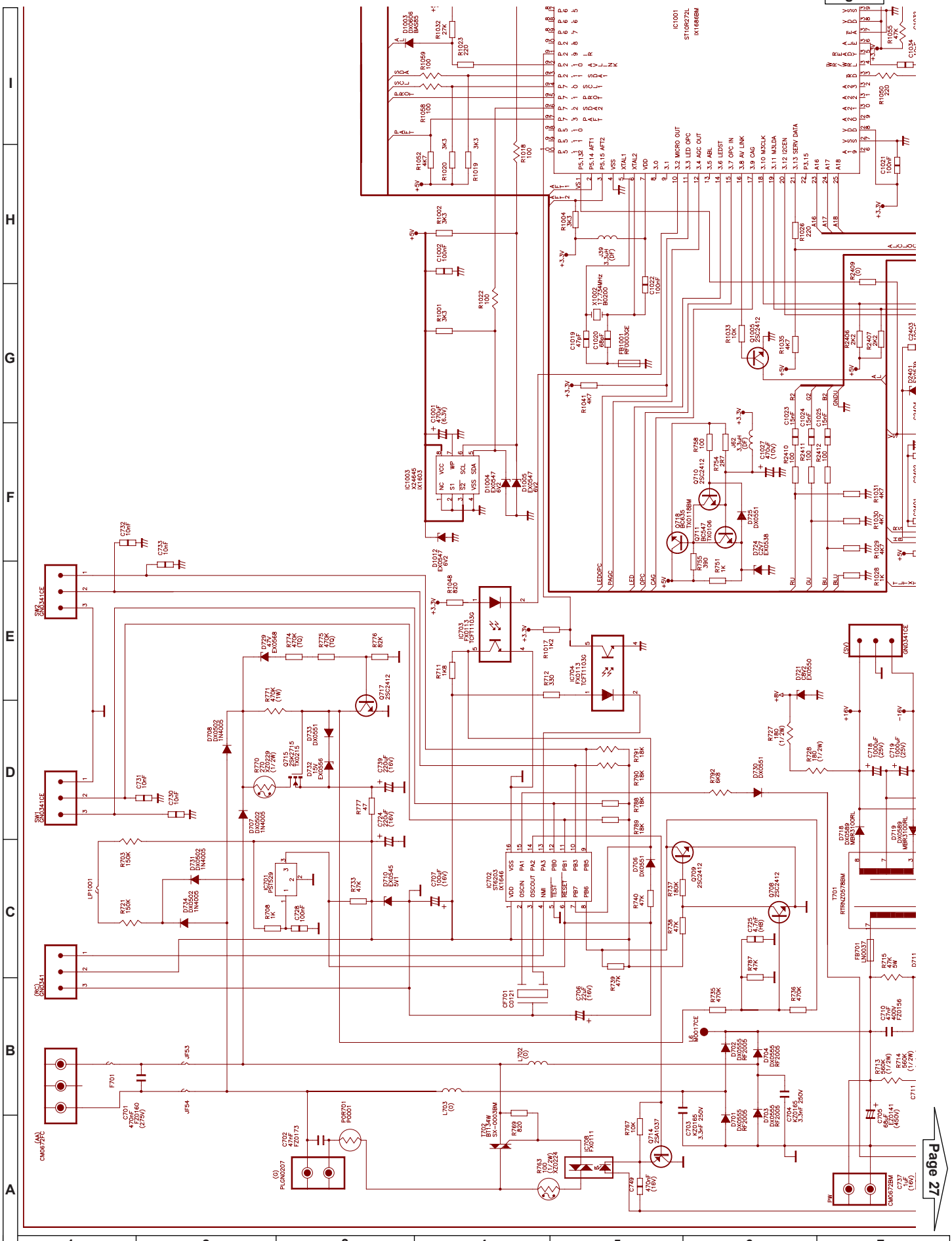
⑬ 
400Hz

SCHEMATIC DIAGRAM OF CRT SOCKET UNIT (F7273N3, 00 Version)



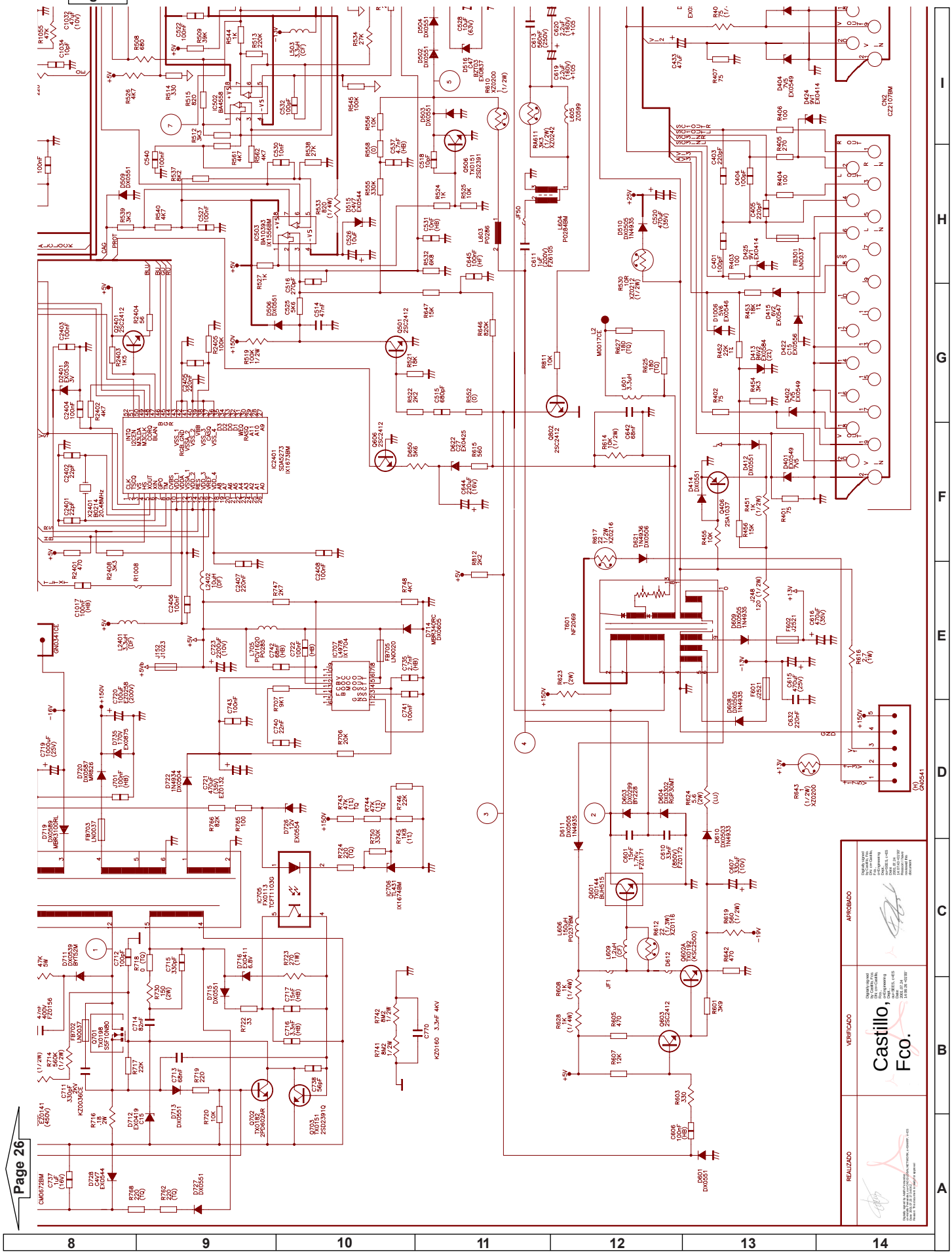
SCHEMATIC DIAGRAM OF MOTHER UNIT (K7240N7, 00 Version)

Page 28

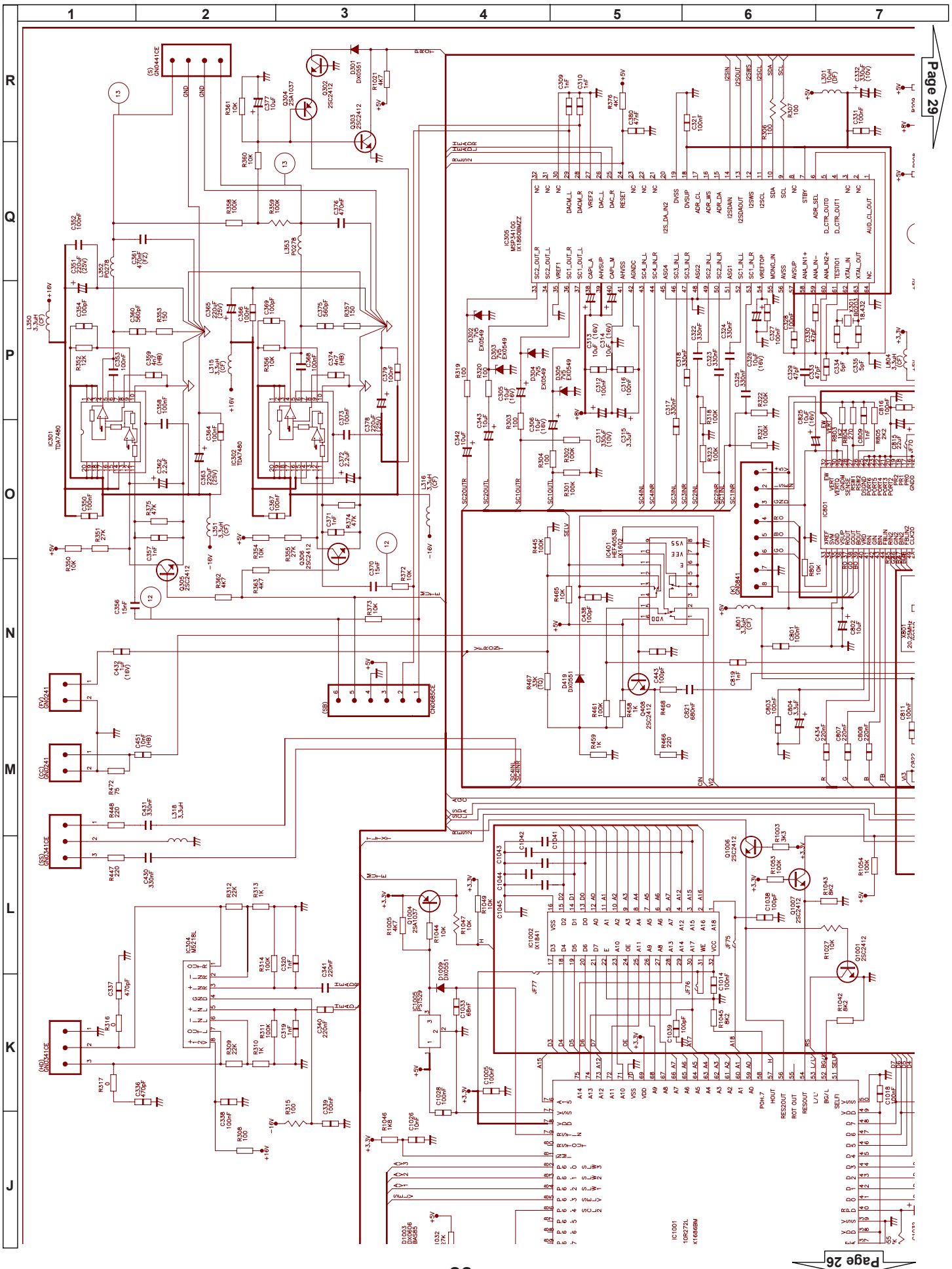


Page 27

SCHEMATIC DIAGRAM OF MOTHER UNIT (K7240N7, 00 Version)



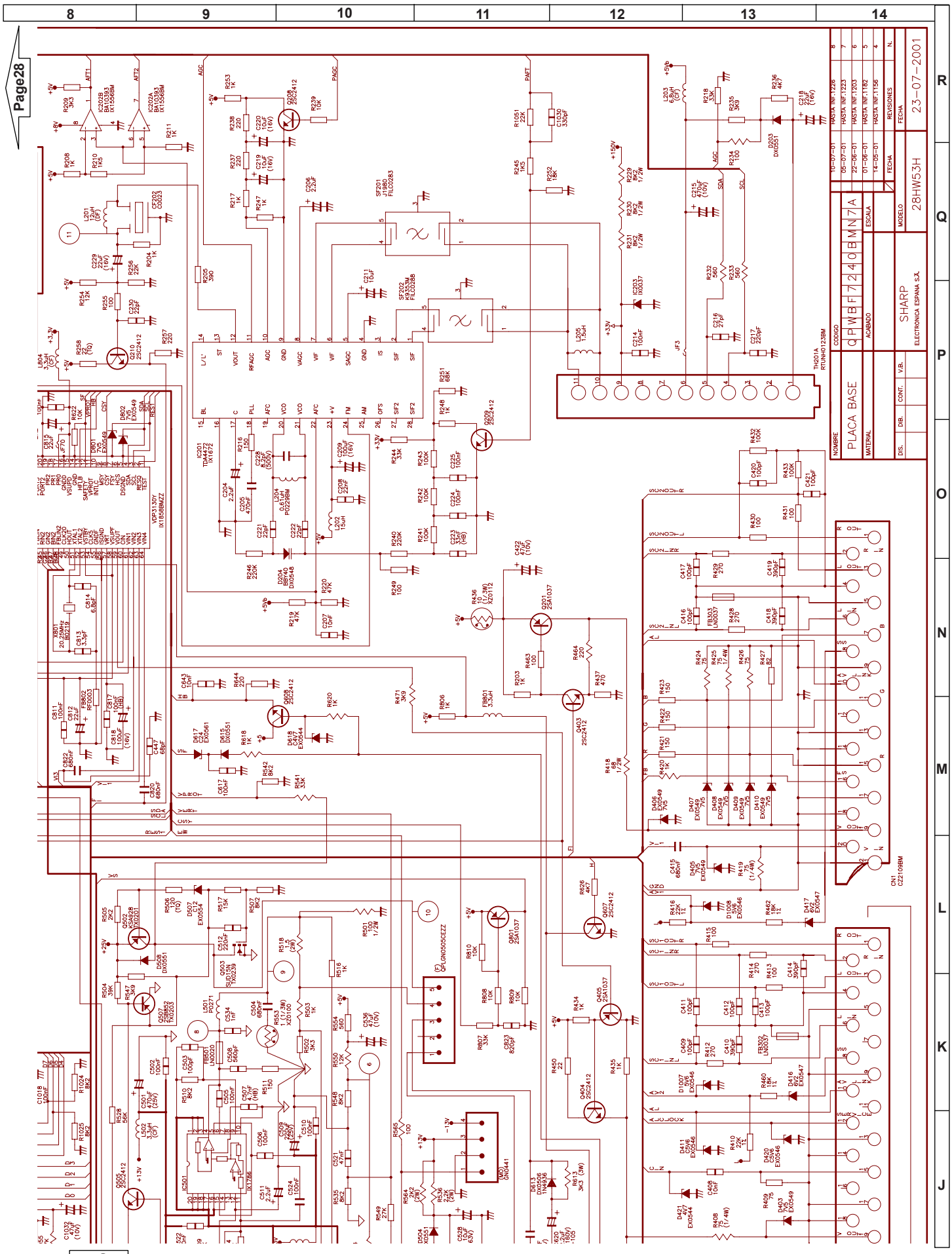
SCHEMATIC DIAGRAM OF MOTHER UNIT (K7240N7, 00 Version)



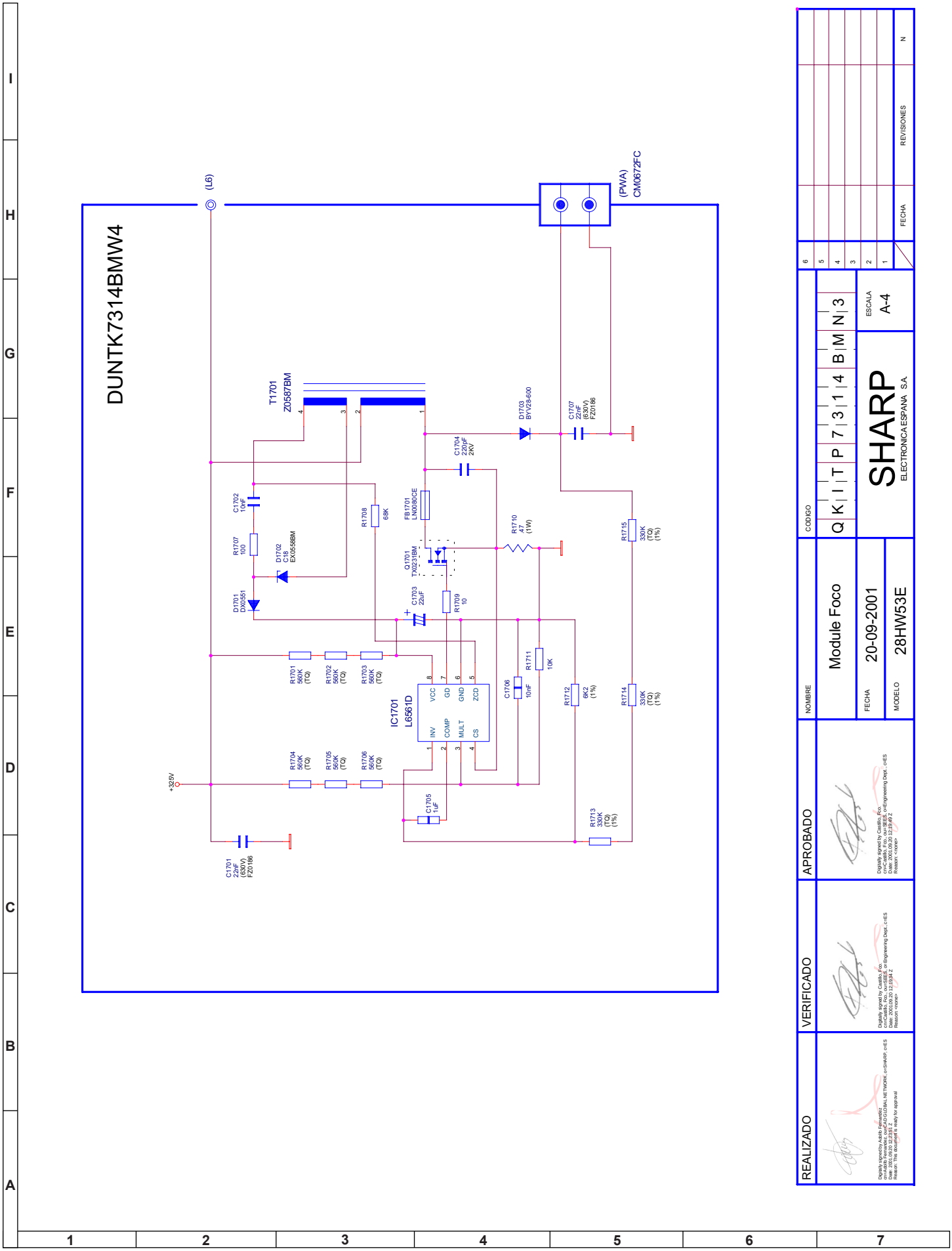
Page 29

Page 26

SCHEMATIC DIAGRAM OF MOTHER UNIT (K7240N7, 00 Version)



SCHEMATIC DIAGRAM OF PFC UNIT (F7314N3, 00 Version)



CODIGO: Q K I T P 7 3 1 4 B M N 3

NOMBRE: Module Foco

FECHA: 20-09-2001

MODELO: 28HW53E

SHARP
ELECTRONICA ESPAÑA S.A.

ESCALA A-4

	FECHA	REVISIONES
1		
2		
3		
4		
5		
6		

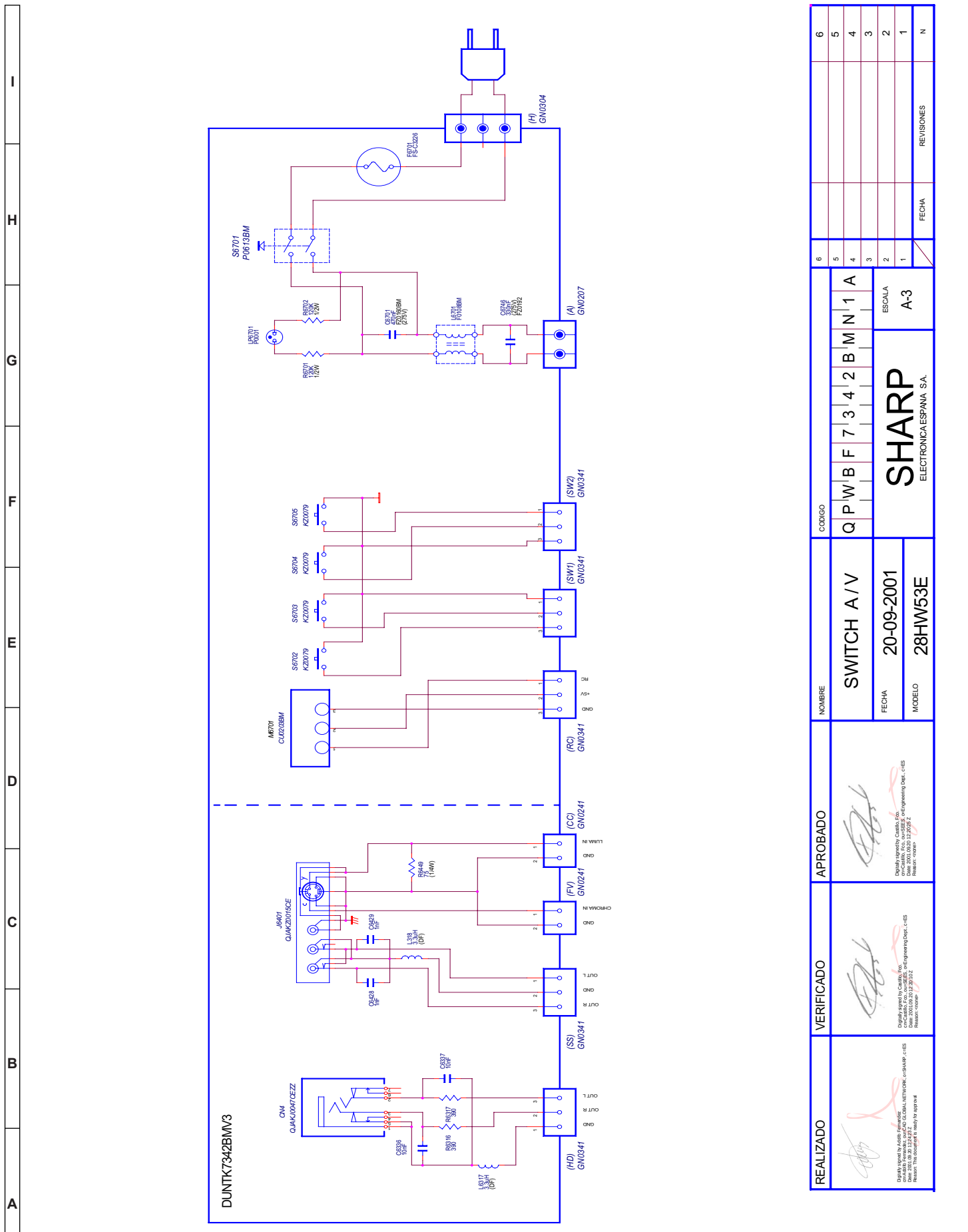
N

APROBADO

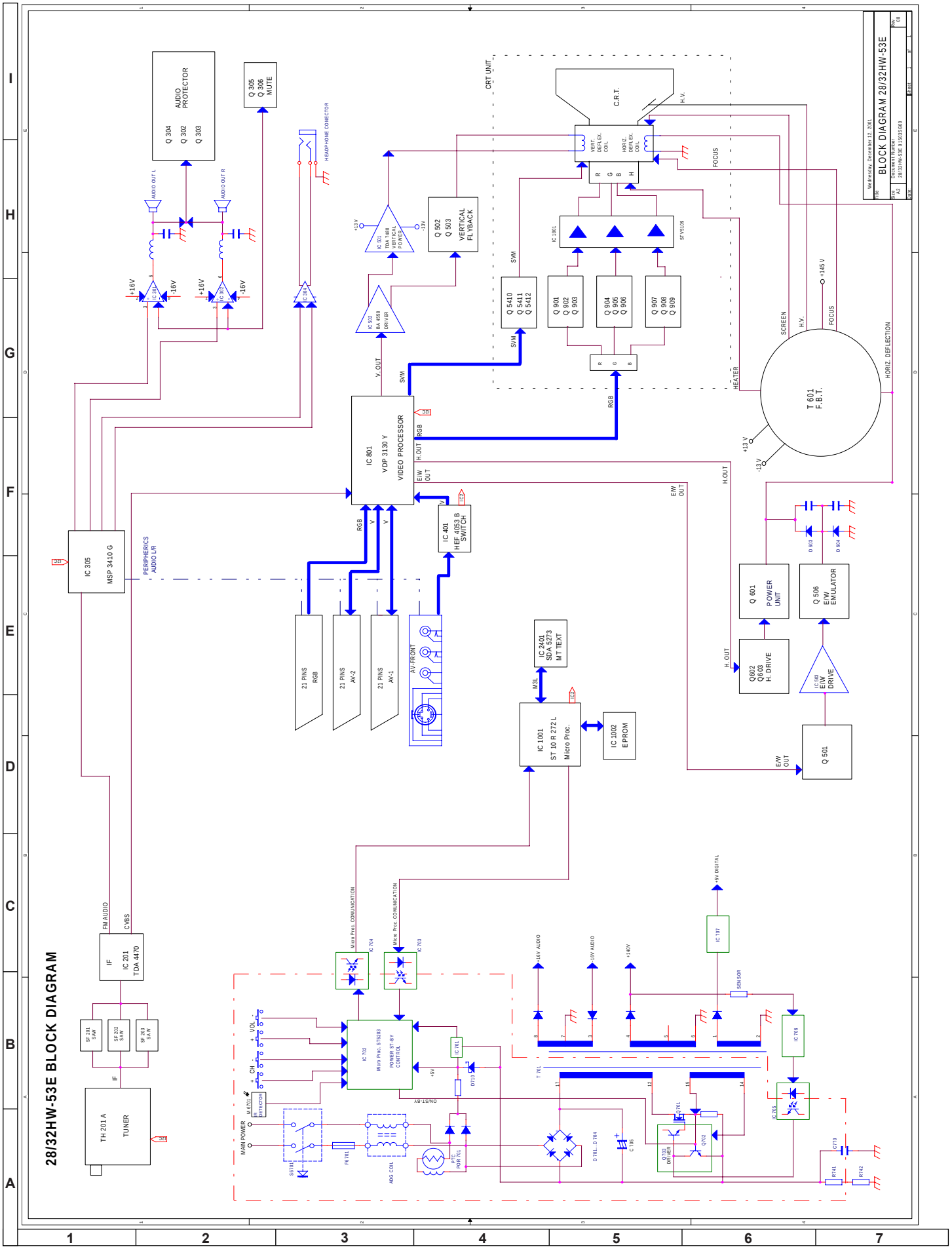
VERIFICADO

REALIZADO

SCHEMATIC DIAGRAM OF POWER SWITCH UNIT (F7342N1, 00 Version)



BLOCK DIAGRAM.



PARTS LISTING

REPLACEMENT PARTS

Replacement parts which have special safety characteristics are identified in this manual. Electrical components having such features are identified by ⚠ in the Replacement Part List.
The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended is not permitted.
Replacement parts not shown in this service manual may create shock fire, or other hazards.

HOW TO ORDER REPLACEMENT PARTS

To have your order completed promptly and correctly please supply the following information.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION
5. CODE
6. QUANTITY

MARK *: SPARE PARTS DELIVERY SECTION

	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
			PICTURE TUBE			
⚠		VB66EGV2381*N	28"SF50HZSingleF W66EGV023X815+DYCO NNEC	S	CC	CW
⚠		RCILG0417BMZZ	DEGUSS.COIL ATN01121951 28"16:9 NUCTOR	S	AQ	AX
			PRINTED WIRING BOARDS (Not replacement items)			
	PWB-A	DUNTK7240CJZ3	MOTHER UNIT 28HW53E	S	--	--
	PWB-B	DUNTK7273BMZ3	CRT UNIT 28HW53E	S	AA	BE
	PWB-C	DUNTK7314BMW4	PFC MODULE 32/28HW53E 28HW57E	S	AQ	BB
	PWB-D	DUNTK7342BMV3	FRONTAL SWITCH/AV 28HW53E	S	AA	BE
	PWB-A		**MOTHER UNIT**			
			TUNER			
	TH 0201	RTUNH0139BMZZ	TUNER CTT5020E THOMSON	S	AP	BA
			INTEGRATED CIRCUITS			
	IC 0201	RH-IX1671BMZZ	IC TDA4470-MFL TEMIC SMD	S	AF	AQ
	IC 0202	RH-IX1556BMZZ	IC BA10393 S0P8 SMD ROHM	S	AC	AD
	IC 0203	RH-IX0037CEZZ	IC UPC574J 33V NEC	S	AF	AD
	IC 0301	VHITDA7480/-1	IC TDA7480 THOMSON	S	AF	AK
	IC 0302	VHITDA7480/-1	IC TDA7480 THOMSON	S	AF	AK
	IC 0304	VHIM5218L//-1	IC M5218L	S	AA	AD
	IC 0305	RH-IX1789BMZZ	CI MSP3410D-PP-C5 MICRONA	S	AS	BD
	IC 0401	RH-IX1602BMZZ	IC HEF4053 SMD	S	AA	AD
	IC 0501	RH-IX1786BMZZ	C.I. TDA 7480L THOMSON	S	AD	AL
	IC 0502	VHIBA4558F/-1	IC BA4558F-E2 ROHM OP-AMP	S	AA	AC
	IC 0503	RH-IX1556BMZZ	IC BA10393 S0P8 SMD ROHM	S	AC	AD
	IC 0701	VHIPST529C2-1	IC PST529C2 MITSUMI	S	AD	AD
	IC 0702	RH-IX1646BMZZ	IC ST6203B SMD SGS-THOMSON	S	AF	AL
⚠	IC 0703	RH-FX0113BMZZ	OPTOCOUPLER TCET1103G VISHAY	S	AA	AC
⚠	IC 0704	RH-FX0113BMZZ	OPTOCOUPLER TCET1103G VISHAY	S	AA	AC
⚠	IC 0705	RH-FX0113BMZZ	OPTOCOUPLER TCET1103G VISHAY	S	AA	AC
	IC 0706	RH-IX1674BMZZ	IC KA431AZ SAMSUNG	S	AA	AD
	IC 0707	RH-IX1704BMZZ	IC L4978 THOMSON	S	AD	AK
	IC 0708	RH-FX0111BMZZ	OPTOCOUPLER TLP165J TOSHIBA	S	AB	AE
	IC 0801	RH-IX1858BMZZ	IC VDP 3130Y-PP-B2 MICRONAS	S	AT	BE
	IC 1001	RH-IX1686BMZZ	IC ST10R272L THOMSON	S	AK	AW
	IC 1002	CH-IX1841CJE0	EPROM SET 4M 3V FLASH 32/28HW53E	S	--	--
	IC 1003	RH-IX1603BMZZ	NVM X24645S8 XICOR SMD	S	AS	AV
	IC 1005	VHIPST529C2-1	IC PST529C2 MITSUMI	S	AD	AD
	IC 2401	RH-IX1673BMZZ	IC SDA5273-2 SIEMENS	S	AT	BE
			TRANSISTORS			
	Q 0201	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
	Q 0208	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 0209	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 0210	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 0302	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 0303	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 0304	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
	Q 0305	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 0306	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 0403	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 0404	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 0405	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
	Q 0406	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
	Q 0408	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 0501	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 0502	RH-TX0201BMZZ	TRT KSA928A SAMGUNG	S	AA	AC
	Q 0503	RH-TX0239BMZZ	TRT SUD15N06-90L SILICONIX	S	AA	AE
	Q 0505	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 0506	RH-TX0151BMZZ	TRT 2SD2391Q SMD ROHM	S	AC	AD
	Q 0507	RH-TX0203BMZZ	TRT 2SB852 ROHM	S	AA	AB
	Q 0601	RH-TX0144BMZZ	TRT BUH 515 THOMSON	S	AH	AK
	Q 0602	RH-TX0192BMZZ	TRT KSC2500 SAMSUNG	S	AB	AC
	Q 0603	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 0606	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 0607	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 0608	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 0701	RH-TX0198BMZZ	TRT S5F10N80A SAMSUNG	S	AM	AU
	Q 0702	RH-TX0182BMZZ	TRT 2PD602AR PHILIPS	S	AA	AB
	Q 0703	RH-TX0151BMZZ	TRT 2SD2391Q SMD ROHM	S	AC	AD
	Q 0708	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 0709	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 0710	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 0711	RH-TX0106MBZZ	TRT BC547	S	AA	AB
	Q 0714	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
	Q 0715	RH-TX0215BMZZ	MOSFET 2SK2715 ROHM	S	AA	AE
	Q 0717	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 0718	RH-TX0118BMZZ	TRT BC635-16 BETA > 100	S	AC	AC
	Q 0801	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
	Q 0802	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 1001	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 1004	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
	Q 1005	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 1006	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 1007	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 2401	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
			DIODES			
	D 0203	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
	D 0204	RH-DX0548BMZZ	DIODE VARICAP BBY40	S	AC	AE
	D 0206	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
	D 0301	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
	D 0302	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
	D 0303	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
	D 0304	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
	D 0305	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
	D 0401	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
	D 0402	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
	D 0403	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
	D 0404	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
	D 0405	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
	D 0406	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
	D 0407	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
	D 0408	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
	D 0409	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
	D 0410	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
	D 0411	RH-EX0546BMZZ	ZENER DIODE TZMC5V6 TFK SMD	S	AA	AA
	D 0412	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
	D 0413	RH-EX0584BMZZ	ZENER DIODE TZMB6V2 TFK SMD 2%	S	AA	AA
	D 0414	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
	D 0415	RH-EX0547BMZZ	ZENER DIODE TZMC6V2 TFK SMD	S	AA	AA
	D 0416	RH-EX0547BMZZ	ZENER DIODE TZMC6V2 TFK SMD	S	AA	AA
	D 0417	RH-EX0547BMZZ	ZENER DIODE TZMC6V2 TFK SMD	S	AA	AA
	D 0419	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
	D 0420	RH-EX0546BMZZ	ZENER DIODE TZMC5V6 TFK SMD	S	AA	AA
	D 0421	RH-EX0544BMZZ	ZENER DIODE TZMC4V7 TFK SMD	S	AA	AA
	D 0422	RH-EX0556BMZZ	ZENER DIODO TZMC15 TFK SMD	S	AA	AA
	D 0424	RH-EX0551BMZZ	ZENER DIODE TZMC9V1 TFK SMD	S	AA	AA
	D 0425	RH-EX0551BMZZ	ZENER DIODE TZMC9V1 TFK SMD	S	AA	AA
	D 0502	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
	D 0503	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
	D 0504	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
	D 0506	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
	D 0507	RH-EX0554BMZZ	ZENER DIODE TZMC12 TFK SMD	S	AA	AA
	D 0508	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
	D 0509	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
D 0510	RH-DX0505BMZZ	DIODE 1N4935	S	AB	AE
D 0515	RH-EX0544BMZZ	ZENER DIODE TZMC4V7 TFK SMD	S	AA	AA
D 0516	RH-EX0837BMZZ	ZENER DIODE BZT03C47 PHILIPS	S	AA	AD
D 0601	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0603	RH-DX0299BMZZ	DIODE BY 228-20	S	AC	AE
D 0604	RH-DX0302BMZZ	DIODO RGP30MT FAGOR (GLASS PASSIVATED)	S	AA	AC
D 0608	RH-DX0505BMZZ	DIODE 1N4935	S	AB	AE
D 0609	RH-DX0505BMZZ	DIODE 1N4935	S	AB	AE
D 0610	RH-DX0503BMZZ	DIODE 1N4933	S	AB	AB
D 0611	RH-DX0505BMZZ	DIODE 1N4935	S	AB	AE
D 0613	RH-DX0506BMZZ	DIODE 1N4936	S	AB	AB
D 0615	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0617	RH-EX0561BMZZ	ZENER DIODE TZMC24 TFK SMD	S	AA	AA
D 0618	RH-EX0544BMZZ	ZENER DIODE TZMC4V7 TFK SMD	S	AA	AA
D 0621	RH-DX0506BMZZ	DIODE 1N4936	S	AB	AB
D 0623	RH-EX0425BMZZ	ZENER DIODE BZX79C27V	S	AA	AA
D 0701	RH-DX0555BMZZ	DIODE RF2005 FAGOR	S	AA	AB
D 0702	RH-DX0555BMZZ	DIODE RF2005 FAGOR	S	AA	AB
D 0703	RH-DX0555BMZZ	DIODE RF2005 FAGOR	S	AA	AB
D 0704	RH-DX0555BMZZ	DIODE RF2005 FAGOR	S	AA	AB
D 0706	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0707	RH-DX0502BMZZ	DIODE 1N4005	S	AB	AA
D 0708	RH-DX0502BMZZ	DIODE 1N4005	S	AB	AA
D 0710	RH-EX0545BMZZ	ZENER DIODE TZMC5V1 TFK SMD	S	AA	AA
D 0711	RH-DX0539BMZZ	DIODE BYT52M TFK	S	AA	AC
D 0712	RH-EX0419BMZZ	ZENER DIODE BZX79C15V 0,4W	S	AA	AB
D 0713	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0714	RH-DX0605BMZZ	DIODE MBR340RL MOTOROLA	S	AA	AE
D 0715	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0716	RH-EX0411BMZZ	ZENER DIODE BZX79C6V8	S	AA	AA
D 0718	RH-DX0589BMZZ	DIODE MBR3100RL MOTOROLA	S	AC	AF
D 0719	RH-DX0589BMZZ	DIODE MBR3100RL MOTOROLA	S	AC	AF
D 0720	RH-DX0587BMZZ	DIODE MR826 PREFORM C6.3	S	AH	AP
D 0721	RH-EX0550BMZZ	ZENER DIODE TZMC8V2 TFK SMD	S	AA	AA
D 0722	RH-DX0504BMZZ	DIODE 1N4934	S	AB	AB
D 0724	RH-EX0538BMZZ	ZENER DIODE TZMC2V7 TFK SMD	S	AA	AA
D 0725	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0726	RH-EX0554BMZZ	ZENER DIODE TZMC12 TFK SMD	S	AA	AA
D 0727	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0728	RH-EX0544BMZZ	ZENER DIODE TZMC4V7 TFK SMD	S	AA	AA
D 0729	RH-EX0568BMZZ	ZENER DIODE TZMC47 TFK SMD	S	AA	AA
D 0730	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0731	RH-DX0502BMZZ	DIODE 1N4005	S	AB	AA
D 0732	RH-EX0556BMZZ	ZENER DIODO TZMC15 TFK SMD	S	AA	AA
D 0733	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0734	RH-DX0502BMZZ	DIODE 1N4005	S	AB	AA
D 0735	RH-EX0875BMZZ	DIODE BZW04-145=170V FAGOR	S	AA	AD
D 0801	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
D 0802	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
D 1003	RH-DX0606BMZZ	DIODE BAS85 PHILIPS SMD	S	AA	AB
D 1004	RH-EX0547BMZZ	ZENER DIODE TZMC6V2 TFK SMD	S	AA	AA
D 1005	RH-EX0547BMZZ	ZENER DIODE TZMC6V2 TFK SMD	S	AA	AA
D 1006	RH-EX0546BMZZ	ZENER DIODE TZMC5V6 TFK SMD	S	AA	AA
D 1007	RH-EX0546BMZZ	ZENER DIODE TZMC5V6 TFK SMD	S	AA	AA
D 1008	RH-EX0546BMZZ	ZENER DIODE TZMC5V6 TFK SMD	S	AA	AA
D 1009	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 1012	RH-EX0547BMZZ	ZENER DIODE TZMC6V2 TFK SMD	S	AA	AA
D 2401	RH-EX0539BMZZ	ZENER DIODE TZMC3V0 TFK SMD	S	AA	AA
		PACKAGED CIRCUITS			
POR0701	RMPTP0001BMZZ	PTC B59250-C1080-B70	S	AA	AD
X 0301	RCRSB0203BMZZ	CRYSTAL 18,432 MHZ	S	AD	AG
X 0801	RCRSB0219BMZZ	CRYSTAL 20.25 HMZ	S	AG	AH
X 1002	RCRSB0200BMZZ	CRYSTAL 17,734 MHZ	S	AD	AG
X 2401	RCRSB0214BMZZ	CRYSTAL 20.48 MHZ SEL	S	AD	AH
		COILS			
L 0201	VP-DF120K0000	PEAK COIL 12UH 10%	S	AA	AA
L 0202	VP-NM150KR63N	COIL 15UH SMD	S	AB	AC
L 0203	VP-CF6R8K0000	PEAK COIL 6.8UH 10%	S	AA	AA
L 0204	RCILP0229BMZZ	COIL SMD 610NH LQN1HR61J	S	AA	AD
L 0205	RCILP0229BMZZ	COIL SMD 610NH LQN1HR61J	S	AA	AD
L 0301	VP-DF100K0000	PEAK COIL 10UH 10%	S	AA	AA
L 0315	VP-CF3R3K0000	PEAK COIL 3.3UH 10%	S	AB	AB
L 0316	VP-CF3R3K0000	PEAK COIL 3.3UH 10%	S	AB	AB

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
L 0318	VP-DF3R3K0000	PEAK COIL 3,3UH 10%	S	AB	AB
L 0350	VP-CF3R3K0000	PEAK COIL 3.3UH 10%	S	AB	AB
L 0351	VP-CF3R3K0000	PEAK COIL 3.3UH 10%	S	AB	AB
L 0352	RCILP0278BMZZ	COIL A823LY-680K TOKO	S	AA	AD
L 0353	RCILP0278BMZZ	COIL A823LY-680K TOKO	S	AA	AD
L 0501	RCILP0271BMZZ	COIL BC-400/K DIEMEN	S	AD	AG
L 0502	VP-CF3R3K0000	PEAK COIL 3.3UH 10%	S	AB	AB
L 0503	VP-CF3R3K0000	PEAK COIL 3.3UH 10%	S	AB	AB
L 0601	VP-NM3R3MR19N	COIL 3,3UH SMD	S	AA	AC
L 0603	RCILP0286BMZZ	COIL BR-0602/A DIEMEN	S	AB	AG
L 0604	RCILP0284BMZZ	COIL HR-18015-01 DIEMEN	S	AB	AG
L 0605	RCILZ0599CEZZ	DL (DELAY LINE)	S	AG	AG
L 0606	RCILP0237BMZZ	COIL AR621LY-151K=R TOKO	S	AC	AD
L 0705	RCILP0285BMZZ	COIL PCV1620-500K DIONIX	S	AB	AF
L 0801	VP-CF3R3K0000	PEAK COIL 3.3UH 10%	S	AB	AB
L 0804	VP-CF3R3K0000	PEAK COIL 3.3UH 10%	S	AB	AB
L 2401	VP-DF3R3K0000	PEAK COIL 3,3UH 10%	S	AB	AB
L 2402	VP-DF100K0000	PEAK COIL 10UH 10%	S	AA	AA
LA 0609	VP-CF1R2K0000	PEAK COIL 1.2UH 10%	S	AA	AB
		CERAMIC FILTERS			
CF 0202	RFILC0020CEZZ	FILTER SIF TRAP (TAPED)	S	AE	AE
CF 0701	RFILC0121GEZZ	FILTER CST8.00MTW MURATA	S	AC	AD
SF 0201	RFILC0278BMZZ	SAW FILTER K3953M SIEMENS	S	AK	AM
SF 0202	RFILC0286BMZZ	FILTER K9356M SIEMENS	S	AC	AG
SF 0203	RFILC0289BMZZ	SAW FILTER L9354M SIEMENS	S	AC	AK
		TRANSFORMERS			
⚠ T 0601	RTRNF2069BMZZ	FBT HR-8014-02 DIEMEN	S	AP	AZ
⚠ T 0701	RTRNZ0578BMZZ	CHOPPER TG-0601A DIEMEN	S	AF	AT
T 0702	RH-SX0003BMZZ	TRIAC BT134W-600 PHILIPS	S	AA	AE
		CAPACITORS			
C 0203	VCKYTV1HB104K	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0204	VCEAGA1HW225M	ELEC C 2,2UF 20% 50V	S	AA	AB
C 0205	RC-FZ4474BMNJ	POL FILM C 470nF 50V 5% ECQ-V PANASONIC	S	AA	AC
C 0206	VCEAGA1HW225M	ELEC C 2,2UF 20% 50V	S	AA	AB
C 0207	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
C 0208	VCKYTV1HF223Z	CERAM C 22NF 50V 2125SMD	S	AA	AA
C 0209	VCEAGA1CW107M	ELEC C 100UF 20% 16V	S	AA	AA
C 0211	VCEAGA1HW106M	ELEC C 10UF 20% 50V	S	AA	AA
C 0212	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
C 0213	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
C 0214	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0215	VCEAGA1AW477M	ELEC C 470UF 20% 10V	S	AA	AB
C 0216	VCCCTV1HH270J	CERAM C 27PF 50V 2125SMD	S	AA	AA
C 0217	VCCCTV1HH221J	CERAM C 220PF 50V 2125SMD	S	AA	AA
C 0218	VCEAGA1CW107M	ELEC C 100UF 20% 16V	S	AA	AA
C 0219	VCEAGA1CW106M	ELEC C 10UF 20% 16V	S	AA	AA
C 0220	VCEAGA1CW106M	ELEC C 10UF 20% 16V	S	AA	AA
C 0221	VCCCTV1HH270J	CERAM C 27PF 50V 2125SMD	S	AA	AA
C 0222	VCCCTV1HH270J	CERAM C 27PF 50V 2125SMD	S	AA	AA
C 0223	VCKYTV1HB333K	CERAM C 33NF 50V 2125SMD	S	AA	AA
C 0224	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0225	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0226	VCKYTV1HB103K	CERAM C 10NF 50V 2125SMD	S	AA	AA
C 0227	VCKYTV1HB103K	CERAM C 10NF 50V 2125SMD	S	AA	AA
C 0228	VCCWPA2HL8R2C	C 8,2PF 0,25 N1500 500V	S	AA	AB
C 0229	VCEAGA1CW226M	ELEC C 22UF 20% 16V	S	AA	AA
C 0230	VCCCTV1HH220J	CERAM C 22PF 50V 2125SMD	S	AA	AA
C 0305	VCEAGA1CW106M	ELEC C 10UF 20% 16V	S	AA	AA
C 0306	VCEAGA1CW106M	ELEC C 10UF 20% 16V	S	AA	AA
C 0309	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
C 0310	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
C 0311	VCEAGA1AW337M	ELEC C 330UF 20% 10V	S	AA	AA
C 0312	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0313	VCEAGA1CW106M	ELEC C 10UF 20% 16V	S	AA	AA
C 0314	VCEAGA1CW106M	ELEC C 10UF 20% 16V	S	AA	AA
C 0315	VCEAGA1HW335M	ELEC C 3,3UF 20% 50V	S	AA	AA
C 0316	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0317	VCKYTV1EF334Z	CERAM C 330NF 25V 2125SMD	S	AA	AB
C 0318	VCKYTV1EF334Z	CERAM C 330NF 25V 2125SMD	S	AA	AB
C 0319	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
C 0320	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
C 0321	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0322	RC-FZ4334BMNJ	POL FILM C 330nF 50V 5% ECQ-V PANASONIC	S	AA	AB
C 0323	RC-FZ4334BMNJ	POL FILM C 330nF 50V 5% ECQ-V PANASONIC	S	AA	AB
C 0324	RC-FZ4334BMNJ	POL FILM C 330nF 50V 5% ECQ-V PANASONIC	S	AA	AB
C 0325	RC-FZ4334BMNJ	POL FILM C 330nF 50V 5% ECQ-V PANASONIC	S	AA	AB
C 0326	VCEAGA1CW106M	ELEC C 10UF 20% 16V	S	AA	AA
C 0327	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0328	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0329	VCCCPA1HH470J	CERAM C 47PF 5% 50V	S	AA	AA
C 0330	VCCCTV1HH470J	CERAM C 47PF 50V 2125SMD	S	AA	AA
C 0331	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0332	VCEAGA1AW337M	ELEC C 330UF 20% 10V	S	AA	AA
C 0333	VCCCTV1HH470J	CERAM C 47PF 50V 2125SMD	S	AA	AA
C 0334	VCCCTV1HH5R0C	CERAM C 5PF 50V 2125SMD	S	AA	AA
C 0335	VCCCTV1HH5R0C	CERAM C 5PF 50V 2125SMD	S	AA	AA
C 0336	VCCCTV1HH471J	CERAM C 470PF 50V 2125SMD	S	AA	AA
C 0337	VCCCTV1HH471J	CERAM C 470PF 50V 2125SMD	S	AA	AA
C 0338	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0339	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0340	VCKYTV1EF224Z	CERAM C 220NF 25V 2125SMD	S	AA	AA
C 0341	RC-FZ4224BMNJ	POL FILM C 220nF 50V 5% ECQ-V PANASONIC	S	AA	AC
C 0342	VCEAGA1HW106M	ELEC C 10UF 20% 50V	S	AA	AA
C 0343	VCEAGA1HW106M	ELEC C 10UF 20% 50V	S	AA	AA
C 0350	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0351	VCEAGA1EW227M	ELEC C 220UF 20% 25V	S	AA	AA
C 0352	RC-FZ4104BMNJ	POL FILM C 100nF 50V 5% ECQ-V PANASONIC	S	AA	AB
C 0353	RC-FZ4104BMNJ	POL FILM C 100nF 50V 5% ECQ-V PANASONIC	S	AA	AB
C 0354	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
C 0356	RC-FZ4153BMNJ	POL FILM C 15nF 50V 5% ECQ-B PANASONIC	S	AA	AB
C 0357	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
C 0358	RC-FZ4104BMNJ	POL FILM C 100nF 50V 5% ECQ-V PANASONIC	S	AA	AB
C 0359	VCKYTV1HB472K	CERAM C 4,7NF 50V 2125SMD	S	AA	AA
C 0360	VCCCTV1HH561J	CERAM C 560PF 50V 2125SMD	S	AA	AA
C 0361	RC-FZ4474BMNJ	POL FILM C 470nF 50V 5% ECQ-V PANASONIC	S	AA	AC
C 0362	VCEAGA1HW225M	ELEC C 2,2UF 20% 50V	S	AA	AB
C 0363	VCEAGA1EW227M	ELEC C 220UF 20% 25V	S	AA	AA
C 0364	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0365	VCEAGA1EW227M	ELEC C 220UF 20% 25V	S	AA	AA
C 0366	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0367	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0368	RC-FZ4104BMNJ	POL FILM C 100nF 50V 5% ECQ-V PANASONIC	S	AA	AB
C 0369	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
C 0370	RC-FZ4153BMNJ	POL FILM C 15nF 50V 5% ECQ-B PANASONIC	S	AA	AB
C 0371	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
C 0372	VCEAGA1HW225M	ELEC C 2,2UF 20% 50V	S	AA	AB
C 0373	RC-FZ4104BMNJ	POL FILM C 100nF 50V 5% ECQ-V PANASONIC	S	AA	AB
C 0374	VCKYTV1HB472K	CERAM C 4,7NF 50V 2125SMD	S	AA	AA
C 0375	VCCCTV1HH561J	CERAM C 560PF 50V 2125SMD	S	AA	AA
C 0376	RC-FZ4474BMNJ	POL FILM C 470nF 50V 5% ECQ-V PANASONIC	S	AA	AC
C 0377	VCEAGA1HW106M	ELEC C 10UF 20% 50V	S	AA	AA
C 0378	VCEAGA1EW227M	ELEC C 220UF 20% 25V	S	AA	AA
C 0379	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0380	VCKYTV1HF473Z	CERAM C 47NF 50V 2125SMD	S	AA	AA
C 0401	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
C 0403	VCCCTV1HH221J	CERAM C 220PF 50V 2125SMD	S	AA	AA
C 0404	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
C 0405	VCCCTV1HH221J	CERAM C 220PF 50V 2125SMD	S	AA	AA
C 0408	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
C 0409	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
C 0410	VCCCTV1HH391J	CERAM C 390PF 50V 2125SMD	S	AA	AA
C 0411	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
C 0412	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
C 0413	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
C 0414	VCCCTV1HH391J	CERAM C 390PF 50V 2125SMD	S	AA	AA
C 0415	RC-FZ4684BMNJ	POL FILM C 680nF 50V 5% ECQ-V PANASONIC	S	AA	AC
C 0416	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
C 0417	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
C 0418	VCCCTV1HH391J	CERAM C 390PF 50V 2125SMD	S	AA	AA
C 0419	VCCCTV1HH391J	CERAM C 390PF 50V 2125SMD	S	AA	AA
C 0420	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
C 0421	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
C 0422	VCEAGA1AW476M	ELEC C 47UF 20% 10V	S	AA	AA
C 0427	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
C 0430	RC-FZ4334BMNJ	POL FILM C 330nF 50V 5% ECQ-V PANASONIC	S	AA	AB
C 0431	RC-FZ4334BMNJ	POL FILM C 330nF 50V 5% ECQ-V PANASONIC	S	AA	AB
C 0432	VCKYTV1CF105Z	CERAM C 1UF 16V 2125SMD	S	AA	AA
C 0433	VCEAGA1HW476M	ELEC C 47UF 20% 50V	S	AA	AA
C 0434	VCKYTV1EF224Z	CERAM C 220NF 25V 2125SMD	S	AA	AA
C 0435	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
C 0436	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
C 0438	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
C 0443	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
C 0447	VCCCTV1HH680J	CERAM C 68PF 50V 2125SMD	S	AA	AA
C 0451	VCKYTV1HB103K	CERAM C 10NF 50V 2125SMD	S	AA	AA
C 0501	VCEAGA1EW477M	ELEC C 470UF 20% 25V	S	AA	AB
C 0502	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0503	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
C 0504	RC-FZ4684BMNJ	POL FILM C 680nF 50V 5% ECQ-V PANASONIC	S	AA	AC
C 0505	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0506	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0507	VCKYTV1HB472K	CERAM C 4,7NF 50V 2125SMD	S	AA	AA
C 0508	VCCCTV1HH561J	CERAM C 560PF 50V 2125SMD	S	AA	AA
C 0509	VCEAGA1EW227M	ELEC C 220UF 20% 25V	S	AA	AA
C 0510	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0511	VCEAGA1HW225M	ELEC C 2,2UF 20% 50V	S	AA	AB
C 0512	VCKYTV1EF224Z	CERAM C 220NF 25V 2125SMD	S	AA	AA
C 0514	RC-FZ4473BMNJ	POL FILM C 47nF 50V 5% ECQ-B PANASONIC	S	AA	AA
C 0515	VCCCTV1HH681J	CERAM C 680PF 50V 2125SMD	S	AA	AA
C 0516	VCCCTV1HH271J	CERAM C 270PF 50V 2125SMD	S	AA	AA
C 0518	VCCCTV1HH100D	CERAM C 10PF 50V 2125SMD	S	AA	AA
C 0520	VCEAGA1VW477M	ELEC C 470UF 20% 35V	S	AA	AB
C 0521	VCKYTV1HB683K	CERAM C 68NF 50V 2125SMD	S	AA	AA
C 0522	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0524	RC-FZ4104BMNJ	POL FILM C 100nF 50V 5% ECQ-V PANASONIC	S	AA	AB
C 0525	VRS-TV1JD562J	2125 5,6KOHM 5% 1/10W SMD	S	AA	AA
C 0526	VCEAGA1HW106M	ELEC C 10UF 20% 50V	S	AA	AA
C 0527	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0528	VCEAGA1JW106M	ELEC C 10UF 20% 63V	S	AA	AA
C 0530	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
C 0531	VCKYTV1HB103K	CERAM C 10NF 50V 2125SMD	S	AA	AA
C 0532	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
C 0534	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
C 0536	VCEAGA1AW476M	ELEC C 47UF 20% 10V	S	AA	AA
C 0537	VCKYTV1HB472K	CERAM C 4,7NF 50V 2125SMD	S	AA	AA
C 0540	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0601	RC-FZ0171BMZZ	C MKP 15NF 1700V PHILIPS	S	AA	AE
C 0606	VCKYTV1HB104K	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0607	VCEAHA1AN337M	ELEC 330UF 20% 10V 105ºC	S	AA	AB
C 0610	RC-FZ0172BMZZ	C MKP 33NF 850V PHILIPS	S	AF	AR
C 0611	RC-FZ6105BMNJ	PP FILM C 1UF 5% 200V	S	AA	AE
C 0613	RC-FZ6564BMNJ	PP FILM C 560NF 5% 250V	S	AC	AF
C 0615	VCEAGA1EW477M	ELEC C 470UF 20% 25V	S	AA	AB
C 0616	VCEAGA1VW477M	ELEC C 470UF 20% 35V	S	AA	AB
C 0617	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0619	VCEA4A2CN225M	C UVZ2C2R2MEH1TA NICHICON	S	AA	AB
C 0620	VCEA4A2CN225M	C UVZ2C2R2MEH1TA NICHICON	S	AA	AB
C 0632	RC-FZ4224BMNJ	POL FILM C 220nF 50V 5% ECQ-V PANASONIC	S	AA	AC
C 0642	RC-FZ4683BMNJ	POL FILM C 68nF 50V 5% ECQ-B PANASONIC	S	AA	AB
C 0643	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
C 0644	VCEAGA1CW227M	ELEC C 220UF 20% 16V	S	AA	AA
C 0645	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
⚠ C 0701	RC-FZ0219BMZZ	C 470NF 275V X2 B81130-C1474-M SIEMENS	S	AA	AD
C 0702	RC-FZ0173BMZZ	POL C 47NF 400V PHIL.365	S	AN	AZ
C 0703	RC-KZ0165BMZZ	CERAM C DE0905-979E332ZAC250	S	AA	AB
C 0704	RC-KZ0165BMZZ	CERAM C DE0905-979E332ZAC250	S	AA	AB
C 0705	RC-EZ0141BMZZ	ELEC C 68UF 450V	S	AD	AL
C 0706	VCEAGA1CW226M	ELEC C 22UF 20% 16V	S	AA	AA
C 0707	VCEAGA1CW107M	ELEC C 100UF 20% 16V	S	AA	AA
C 0710	RC-FZ0156BMZZ	C B32529-B6473K 47nF 400V SIEMENS	S	AD	AE
C 0711	RC-KZ0036CEZZ	CERAM C 330PF 2KV	S	AA	AB
C 0712	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
C 0713	RC-FZ4683BMNJ	POL FILM C 68nF 50V 5% ECQ-B PANASONIC	S	AA	AB
C 0714	RC-FZ4823BMNJ	POL FILM C 82nF 50V 5% ECQ-B PANASONIC	S	AA	AB
C 0715	VCCCTV1HH331J	CERAM C 330PF 50V 2125SMD	S	AA	AA
C 0716	VCKYTV1HB332K	CERAM C 3,3NF 50V 2125SMD	S	AA	AA
C 0717	VCKYTV1HB153K	CERAM C 15NF 50V 2125SMD	S	AA	AA
C 0718	VCEAGA1EW108M	ELEC C 1000UF 20% 25V	S	AD	AD
C 0719	VCEAGA1EW108M	ELEC C 1000UF 20% 25V	S	AD	AD

	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
	C 0720	RC-EZ0258CEZZ	ELEC C 100MF 200V	S	AC	AK
	C 0721	RC-EZ0132BMZZ	C UVX1V471MPA1CA NICHICON	S	AA	AC
	C 0722	VCKYTV1HB104K	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0723	VCEAGA1AW228M	ELEC C 2200UF 20% 10V	S	AA	AD
	C 0724	VCEAGA1CW227M	ELEC C 220UF 20% 16V	S	AA	AA
	C 0725	VCKYTV1HB472K	CERAM C 4,7NF 50V 2125SMD	S	AA	AA
	C 0728	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0730	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
	C 0731	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
	C 0732	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
	C 0733	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
	C 0735	VCKYTV1HB272K	CERAM C 2,7NF 50V 2125SMD	S	AA	AB
	C 0737	VCKYTV1CF105Z	CERAM C 1UF 16V 2125SMD	S	AA	AA
	C 0738	VCCCTV1HH560J	CERAM C 56PF 50V 2125SMD	S	AA	AA
	C 0739	VCEAGA1CW227M	ELEC C 220UF 20% 16V	S	AA	AA
	C 0740	VCKYTV1HF223Z	CERAM C 22NF 50V 2125SMD	S	AA	AA
	C 0741	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0742	VCKYTV1HB683K	CERAM C 68NF 50V 2125SMD	S	AA	AA
	C 0743	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0749	VCKYTV1CF474Z	CERAM C 470NF 16V 2125SMD	S	AA	AA
⚠	C 0770	RC-KZ0106GEZZ	CERAM C DE1410 E332M-KX	S	AB	AC
	C 0801	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0802	VCEAGA1HW106M	ELEC C 10UF 20% 50V	S	AA	AA
	C 0803	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0804	VCEAGA1HW335M	ELEC C 3,3UF 20% 50V	S	AA	AA
	C 0807	VCKYTV1EF224Z	CERAM C 220NF 25V 2125SMD	S	AA	AA
	C 0808	VCKYTV1EF224Z	CERAM C 220NF 25V 2125SMD	S	AA	AA
	C 0809	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 0811	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0812	VCEAGA1HW226M	ELEC C 22UF 20% 50V	S	AA	AA
	C 0813	VCCCTV1HH3R3C	CERAM C 3,3PF 50V 2125SMD	S	AA	AA
	C 0814	VCCCTV1HH6R8D	CERAM C 6,8PF 50V 2125SMD	S	AA	AA
	C 0815	VCEAGA1HW226M	ELEC C 22UF 20% 50V	S	AA	AA
	C 0816	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0817	VCKYTV1HB104K	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0818	VCEAGA1CW107M	ELEC C 100UF 20% 16V	S	AA	AA
	C 0819	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 0820	RC-FZ4684BMNJ	POL FILM C 680nF 50V 5% ECQ-V PANASONIC	S	AA	AC
	C 0821	RC-FZ4684BMNJ	POL FILM C 680nF 50V 5% ECQ-V PANASONIC	S	AA	AC
	C 0822	RC-FZ4684BMNJ	POL FILM C 680nF 50V 5% ECQ-V PANASONIC	S	AA	AC
	C 0823	VCCCTV1HH821J	CERAM C 820PF 50V 2125SMD	S	AA	AA
	C 0825	VCEAGA1CW106M	ELEC C 10UF 20% 16V	S	AA	AA
	C 1001	VCEAGA0JW477M	ELEC C 470UF 20% 6,3V	S	AA	AA
	C 1002	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1005	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1014	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1017	VCKYTV1HB104K	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1018	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1019	VCCCTV1HH470J	CERAM C 47PF 50V 2125SMD	S	AA	AA
	C 1020	VCCCTV1HH680J	CERAM C 68PF 50V 2125SMD	S	AA	AA
	C 1021	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1022	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1023	VCKYTV1HF153Z	CERAM C 15NF 50V 2125SMD	S	AA	AA
	C 1024	VCKYTV1HF153Z	CERAM C 15NF 50V 2125SMD	S	AA	AA
	C 1025	VCKYTV1HF153Z	CERAM C 15NF 50V 2125SMD	S	AA	AA
	C 1026	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
	C 1027	VCEAGA1AW477M	ELEC C 470UF 20% 10V	S	AA	AB
	C 1028	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1030	VCCCTV1HH331J	CERAM C 330PF 50V 2125SMD	S	AA	AA
	C 1032	VCEAGA1AW476M	ELEC C 47UF 20% 10V	S	AA	AA
	C 1033	VCKYTV1HF683Z	CERAM C 68NF 50V 2125SMD	S	AA	AA
	C 1034	VCCCTV1HH100D	CERAM C 10PF 50V 2125SMD	S	AA	AA
	C 1038	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
	C 1039	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	AA
	C 1041	VCCSPA1HL101J	CERAM C 100PF 5% 50V	S	AA	AA
	C 1042	VCCSPA1HL101J	CERAM C 100PF 5% 50V	S	AA	AA
	C 1043	VCCSPA1HL101J	CERAM C 100PF 5% 50V	S	AA	AA
	C 1044	VCCSPA1HL101J	CERAM C 100PF 5% 50V	S	AA	AA
	C 1045	VCCSPA1HL101J	CERAM C 100PF 5% 50V	S	AA	AA
	C 2401	VCCCTV1HH220J	CERAM C 22PF 50V 2125SMD	S	AA	AA
	C 2402	VCCCTV1HH220J	CERAM C 22PF 50V 2125SMD	S	AA	AA
	C 2403	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 2404	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 2405	VCKYTV1EF224Z	CERAM C 220NF 25V 2125SMD	S	AA	AA
	C 2407	VCKYTV1EF224Z	CERAM C 220NF 25V 2125SMD	S	AA	AA
	C 2408	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
			RESISTORS			
	R 0203	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0204	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0205	VRS-TV1JD391J	2125 390 OHM 5% 1/10W SMD	S	AA	AA
	R 0208	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0209	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	AA
	R 0210	VRS-TV1JD152J	2125 1.5KOHM 5% 1/10W SMD	S	AA	AA
	R 0211	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0215	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 0216	VRS-TV1JD151J	2125 150 OHM 5% 1/10W SMD	S	AA	AA
	R 0217	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0219	VRS-TV1JD473J	2125 47KOHM 5% 1/10W SMD	S	AA	AA
	R 0220	VRS-TV1JD473J	2125 47KOHM 5% 1/10W SMD	S	AA	AA
	R 0226	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	R 0229	VRD-RA2HD822J	RES 8,2KOHM 5% 1/2W	S	AA	AA
	R 0230	VRD-RA2HD822J	RES 8,2KOHM 5% 1/2W	S	AA	AA
	R 0231	VRD-RA2HD822J	RES 8,2KOHM 5% 1/2W	S	AA	AA
	R 0232	VRD-RA2BE561J	RES 560 OHM 5% 1/8W	S	AA	AA
	R 0233	VRD-RA2BE561J	RES 560 OHM 5% 1/8W	S	AA	AA
	R 0234	VRD-RA2BE101J	RES 100 OHM 5% 1/8W	S	AA	AA
	R 0235	VRS-TV1JD153J	2125 15KOHM 5% 1/10W SMD	S	AA	AA
	R 0236	VRS-TV1JD562J	2125 5,6KOHM 5% 1/10W SMD	S	AA	AA
	R 0237	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
	R 0238	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
	R 0239	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 0240	VRS-TV1JD224J	2125 220KOHM 5% 1/10W SMD	S	AA	AA
	R 0241	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0242	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0243	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0244	VRS-TV1JD333J	2125 33KOHM 5% 1/10W SMD	S	AA	AA
	R 0245	VRS-TV1JD152J	2125 1.5KOHM 5% 1/10W SMD	S	AA	AA
	R 0246	VRS-TV1JD224J	2125 220KOHM 5% 1/10W SMD	S	AA	AA
	R 0247	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0248	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	R 0251	VRS-TV1JD823J	2125 82KOHM 5% 1/10W SMD	S	AA	AA
	R 0252	VRS-TV1JD183J	2125 18KOHM 5% 1/10W SMD	S	AA	AA
	R 0253	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0254	VRS-TV1JD123J	2125 12KOHM 5% 1/10W SMD	S	AA	AA
	R 0255	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0256	VRS-TV1JD223J	2125 22KOHM 5% 1/10W SMD	S	AA	AA
	R 0257	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
	R 0258	VRS-TQ2BD220J	OX RE 22 OHM 5% 1/8W SMD	S	AA	AA
	R 0259	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
	R 0301	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0302	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0303	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0304	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0306	VRD-RA2BE101J	RES 100 OHM 5% 1/8W	S	AA	AA
	R 0307	VRD-RA2BE101J	RES 100 OHM 5% 1/8W	S	AA	AA
	R 0308	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0309	VRS-TV1JD223J	2125 22KOHM 5% 1/10W SMD	S	AA	AA
	R 0310	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0311	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0312	VRS-TV1JD223J	2125 22KOHM 5% 1/10W SMD	S	AA	AA
	R 0313	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0314	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0315	VRD-RA2BE101J	RES 100 OHM 5% 1/8W	S	AA	AA
	R 0316	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	R 0317	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	R 0318	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0319	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0320	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0321	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0322	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0323	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0350	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 0351	VRS-TV1JD273J	2125 27KOHM 5% 1/10W SMD	S	AA	AA
	R 0352	VRS-TV1JD123J	2125 12KOHM 5% 1/10W SMD	S	AA	AA
	R 0353	VRS-TV1JD151J	2125 150 OHM 5% 1/10W SMD	S	AA	AA
	R 0354	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 0355	VRS-TV1JD273J	2125 27KOHM 5% 1/10W SMD	S	AA	AA

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
R 0356	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
R 0357	VRS-TV1JD151J	2125 150 OHM 5% 1/10W SMD	S	AA	AA
R 0358	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
R 0359	VRD-RA2BE104J	RES 100KOHM 5% 1/8W	S	AA	AA
R 0360	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
R 0361	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
R 0362	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
R 0363	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
R 0372	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
R 0373	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
R 0374	VRS-TV1JD473J	2125 47KOHM 5% 1/10W SMD	S	AA	AA
R 0375	VRS-TV1JD473J	2125 47KOHM 5% 1/10W SMD	S	AA	AA
R 0376	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
R 0401	VRS-TV1JD750J	2125 75 OHM 5% 1/10W SMD	S	AA	AA
R 0402	VRS-TV1JD750J	2125 75 OHM 5% 1/10W SMD	S	AA	AA
R 0403	VRS-TV1JD271J	2125 270 OHM 5% 1/10W SMD	S	AA	AA
R 0404	VRS-TV1JD271J	2125 270 OHM 5% 1/10W SMD	S	AA	AA
R 0405	VRS-TV1JD271J	2125 270 OHM 5% 1/10W SMD	S	AA	AA
R 0406	VRS-TV1JD271J	2125 270 OHM 5% 1/10W SMD	S	AA	AA
R 0407	VRS-TV1JD750J	2125 75 OHM 5% 1/10W SMD	S	AA	AA
R 0408	VRD-RA2EE750J	RES 75 OHM 5% 1/4W	S	AA	AA
R 0409	VRS-TV1JD750J	2125 75 OHM 5% 1/10W SMD	S	AA	AA
R 0410	VRS-TV1JD223F	2125 22KOHM 1% 1/10W SMD	S	AA	AA
R 0412	VRS-TV1JD271J	2125 270 OHM 5% 1/10W SMD	S	AA	AA
R 0413	VRS-TV1JD271J	2125 270 OHM 5% 1/10W SMD	S	AA	AA
R 0414	VRS-TV1JD271J	2125 270 OHM 5% 1/10W SMD	S	AA	AA
R 0415	VRS-TV1JD271J	2125 270 OHM 5% 1/10W SMD	S	AA	AA
R 0416	VRS-TV1JD223F	2125 22KOHM 1% 1/10W SMD	S	AA	AA
R 0418	VRD-RA2HD680J	RES 68 OHM 5% 1/2W	S	AA	AA
R 0419	VRD-RA2EE750J	RES 75 OHM 5% 1/4W	S	AA	AA
R 0420	VRD-RA2BE102J	RES 1KOHM 5% 1/8W	S	AA	AA
R 0421	VRS-TV1JD151J	2125 150 OHM 5% 1/10W SMD	S	AA	AA
R 0422	VRS-TV1JD151J	2125 150 OHM 5% 1/10W SMD	S	AA	AA
R 0423	VRS-TV1JD151J	2125 150 OHM 5% 1/10W SMD	S	AA	AA
R 0424	VRD-RA2BE750J	RES 75 OHM 5% 1/8W	S	AA	AA
R 0425	VRD-RA2EE750J	RES 75 OHM 5% 1/4W	S	AA	AA
R 0426	VRD-RA2BE750J	RES 75 OHM 5% 1/8W	S	AA	AA
R 0427	VRS-TV1JD820J	2125 82 OHM 5% 1/10W SMD	S	AA	AA
R 0428	VRS-TV1JD271J	2125 270 OHM 5% 1/10W SMD	S	AA	AA
R 0429	VRS-TV1JD271J	2125 270 OHM 5% 1/10W SMD	S	AA	AA
R 0430	VRS-TV1JD271J	2125 270 OHM 5% 1/10W SMD	S	AA	AA
R 0431	VRS-TV1JD271J	2125 270 OHM 5% 1/10W SMD	S	AA	AA
R 0432	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
R 0433	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
R 0434	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
R 0435	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
R 0436	RR-XZ0112BMZZ	FUS RES 10R TAP 5% 1/3W	S	AA	AB
R 0437	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S	AA	AA
R 0445	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
R 0447	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
R 0448	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
R 0450	VRS-TV1JD220J	2125 22 OHM 5% 1/10W SMD	S	AA	AA
R 0451	VRD-RA2HD102J	RES 1KOHM 5% 1/2W	S	AA	AA
R 0452	VRS-TV1JD223F	2125 22KOHM 1% 1/10W SMD	S	AA	AA
R 0453	VRS-TV1JD183F	2125 18KOHM 1% 1/10W SMD	S	AA	AA
R 0454	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	AA
R 0455	VRD-RA2BE103J	RES 10KOHM 5% 1/8W	S	AA	AA
R 0456	VRS-TV1JD153J	2125 15KOHM 5% 1/10W SMD	S	AA	AA
R 0458	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
R 0459	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
R 0460	VRS-TV1JD183F	2125 18KOHM 1% 1/10W SMD	S	AA	AA
R 0461	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
R 0462	VRS-TV1JD183F	2125 18KOHM 1% 1/10W SMD	S	AA	AA
R 0463	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
R 0464	VRD-RA2BE221J	RES 220 OHM 5% 1/8W	S	AA	AA
R 0465	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
R 0466	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
R 0467	VRS-TQ2BD333J	OX RE 33KOHM 5% 1/8W SMD	S	AA	AA
R 0468	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
R 0471	VRD-RA2BE392J	RES 3.9KOHM 5% 1/8W	S	AA	AA
R 0472	VRS-TV1JD750J	2125 75 OHM 5% 1/10W SMD	S	AA	AA
R 0501	VRD-RA2HD101J	RES 100 OHM 5% 1/2W	S	AA	AA
R 0502	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	AA
R 0503	VRD-RA2BE102J	RES 1KOHM 5% 1/8W	S	AA	AA

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
R 0504	VRS-TV1JD393J	2125 39KOHM 5% 1/10W SMD	S	AA	AA
R 0505	VRS-TV1JD222J	2125 2,2KOHM 5% 1/10W SMD	S	AA	AA
R 0506	VRS-TQ2BD121J	OX RE 120 OHM 5% 1/8W SMD	S	AA	AA
R 0507	VRS-TV1JD822J	2125 8,2KOHM 5% 1/10W SMD	S	AA	AA
R 0508	VRD-RA2BE681J	RES 680 OHM 5% 1/8W	S	AA	AA
R 0509	VRS-TV1JD393J	2125 39KOHM 5% 1/10W SMD	S	AA	AA
R 0510	VRS-TV1JD822J	2125 8,2KOHM 5% 1/10W SMD	S	AA	AA
R 0511	VRS-TV1JD151J	2125 150 OHM 5% 1/10W SMD	S	AA	AA
R 0512	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	AA
R 0513	VRS-TV1JD224J	2125 220KOHM 5% 1/10W SMD	S	AA	AA
R 0514	VRS-TV1JD331J	2125 330 OHM 5% 1/10W SMD	S	AA	AA
R 0515	VRS-TV1JD821J	2125 820 OHM 5% 1/10W SMD	S	AA	AA
R 0516	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
R 0517	VRS-TV1JD153J	2125 15KOHM 5% 1/10W SMD	S	AA	AA
R 0518	VRN-VV3DB1R5J	MET FILM R 1,5 OHM 5% 2W	S	AA	AA
R 0519	VRD-RA2HD104J	RES 100KOHM 5% 1/2W	S	AA	AA
R 0521	VRS-TV1JD183J	2125 18KOHM 5% 1/10W SMD	S	AA	AA
R 0522	VRS-TV1JD222J	2125 2,2KOHM 5% 1/10W SMD	S	AA	AA
R 0524	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
R 0525	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
R 0526	VRD-RA2BE472J	RES 4,7KOHM 5% 1/8W	S	AA	AA
R 0527	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
R 0528	VRS-TV1JD563J	2125 56KOHM 5% 1/10W SMD	S	AA	AA
⚠ R 0530	RR-XZ0212BMZZ	FUS RES 10R TAP 5% 1/2W	S	AA	AB
R 0532	VRS-TV1JD682J	2125 6.8KOHM 5% 1/10W SMD	S	AA	AA
R 0533	VRD-RA2EE821J	RES 820 OHM 5% 1/4W	S	AA	AA
R 0534	VRD-RA2BE273J	RES 27KOHM 5% 1/8W	S	AA	AA
R 0535	VRS-TV1JD822J	2125 8,2KOHM 5% 1/10W SMD	S	AA	AA
R 0536	VRS-LU3DB222J	SET MET OX R 2,2KOHM 5% 2W LW	S	AA	AB
R 0537	VRS-TV1JD822J	2125 8,2KOHM 5% 1/10W SMD	S	AA	AA
R 0538	VRS-TV1JD273J	2125 27KOHM 5% 1/10W SMD	S	AA	AA
R 0539	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	AA
R 0540	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
R 0541	VRD-RA2BE333J	RES 33KOHM 5% 1/8W	S	AA	AA
R 0542	VRS-TV1JD822J	2125 8,2KOHM 5% 1/10W SMD	S	AA	AA
R 0544	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
R 0545	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
R 0547	VRS-TV1JD392J	2125 3.9KOHM 5% 1/10W SMD	S	AA	AA
R 0548	VRS-TV1JD822J	2125 8,2KOHM 5% 1/10W SMD	S	AA	AA
R 0549	VRS-TV1JD273J	2125 27KOHM 5% 1/10W SMD	S	AA	AA
R 0550	VRD-RA2BE123J	RES 12KOHM 5% 1/8W	S	AA	AA
R 0552	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
R 0553	RR-XZ0100BMZZ	FUS RES 1R0 TAP 5% 1/3W	S	AA	AB
R 0554	VRS-TV1JD152J	2125 1.5KOHM 5% 1/10W SMD	S	AA	AA
R 0555	VRS-TV1JD334J	2125 330KOHM 5% 1/10W SMD	S	AA	AA
R 0556	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
R 0558	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
R 0561	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
R 0562	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
R 0564	VRS-LU3DB102J	SET MET OX R 1KOHM 5% 2W LW	S	AA	AB
R 0601	VRS-TV1JD392J	2125 3.9KOHM 5% 1/10W SMD	S	AA	AA
R 0603	VRD-RA2BE331J	RES 330 OHM 5% 1/8W	S	AA	AA
R 0605	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S	AA	AA
R 0607	VRS-TV1JD123J	2125 12KOHM 5% 1/10W SMD	S	AA	AA
R 0608	VRD-RA2EE102J	RES 1KOHM 5% 1/4W	S	AA	AA
⚠ R 0610	RR-XZ0200BMZZ	FUS RES 1R0 TAP 5% 1/2W	S	AA	AB
⚠ R 0612	RR-XZ0116BMZZ	FUS RES 22R TAP 5% 1/3W	S	AA	AB
R 0613	VRS-LU3LB332J	SET MET OX R 3,3KOHM 5% 3W LW	S	AA	AB
R 0614	VRD-RA2HD103J	RES 10KOHM 5% 1/2W	S	AA	AA
R 0615	VRS-TV1JD561J	2125 560 OHM 5% 1/10W SMD	S	AA	AA
R 0616	VRN-VV3AB2R7J	MET FILM R 2.7 OHM 5% 1W	S	AA	AA
⚠ R 0617	RR-XZ0216BMZZ	FUS RES 22R TAP 5% 1/2W	S	AA	AB
R 0618	VRD-RA2BE102J	RES 1KOHM 5% 1/8W	S	AA	AA
R 0619	VRD-RA2HD561J	RES 560 OHM 5% 1/2W	S	AA	AA
R 0620	VRD-RA2BE102J	RES 1KOHM 5% 1/8W	S	AA	AA
R 0622	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
R 0623	VRN-VV3DB1R0J	MET FILM R 1 OHM 5% 2W	S	AA	AA
R 0624	VRN-LU3DB5R6J	SET MET FILM 5,6 OHM 5% 2W LW	S	AA	AB
R 0625	VRS-TQ2BD181J	OX RE 180 OHM 5% 1/8W SMD	S	AA	AA
R 0626	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
R 0627	VRS-TQ2BD181J	OX RE 180 OHM 5% 1/8W SMD	S	AA	AA
R 0628	VRD-RA2EE102J	RES 1KOHM 5% 1/4W	S	AA	AA
R 0642	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S	AA	AA
R 0643	RR-XZ0200BMZZ	FUS RES 1R0 TAP 5% 1/2W	S	AA	AB

	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
	R 0644	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
	R 0646	VRS-TV1JD824J	2125 820KOHM 5% 1/10W SMD	S	AA	AA
	R 0647	VRS-TV1JD153J	2125 15KOHM 5% 1/10W SMD	S	AA	AA
	R 0650	VRD-RA2BE562J	RES 5,6KOHM 5% 1/8W	S	AA	AA
	R 0703	VRD-RA2HD154J	RES 150KOHM 5% 1/2W	S	AA	AA
	R 0706	VRS-TV1JD203J	2125 20KOHM 5% 1/10W SMD	S	AA	AA
	R 0707	VRS-TV1JD912J	2125 9.1KOHM 5% 1/10W SMD	S	AA	AA
	R 0708	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0711	VRS-TV1JD122J	2125 1,2KOHM 5% 1/10W SMD	S	AA	AA
	R 0712	VRS-TV1JD331J	2125 330 OHM 5% 1/10W SMD	S	AA	AA
	R 0713	VRC-MA2HG564J	SOLID R 560KOHM 5% 1/2W	S	AA	AA
	R 0714	VRC-MA2HG564J	SOLID R 560KOHM 5% 1/2W	S	AA	AA
	R 0715	VRW-KS3HC473J	WOUND RES 47KOHM 5% 5W	S	AA	AE
	R 0716	VRN-VV3DBR18K	MET FILM R .18 OHM 10% 2W	S	AA	AB
	R 0717	VRS-TV1JD223J	2125 22KOHM 5% 1/10W SMD	S	AA	AA
	R 0718	VRS-TQ2BD000J	3216 0 OHM 5% 1/8W SMD	S	AA	AA
	R 0719	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
	R 0720	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 0721	VRD-RA2HD154J	RES 150KOHM 5% 1/2W	S	AA	AA
	R 0722	VRS-TV1JD330J	2125 33 OHM 5% 1/10W SMD	S	AA	AA
	R 0723	VRS-VV3AB271J	MET OX RES 270 OHM 5% 1W	S	AA	AA
	R 0724	VRS-TQ2BD221J	OX RE 220 OHM 5% 1/8W SMD	S	AA	AA
	R 0727	VRD-RA2HD181J	RES 180 OHM 5% 1/2W	S	AA	AA
	R 0728	VRD-RA2HD181J	RES 180 OHM 5% 1/2W	S	AA	AA
	R 0730	VRS-VV3DB151J	MET OX RES 150 OHM 5% 2W	S	AA	AA
	R 0733	VRS-TV1JD473J	2125 47KOHM 5% 1/10W SMD	S	AA	AA
	R 0735	VRS-TV1JD474J	2125 470KOHM 5% 1/10W SMD	S	AA	AA
	R 0736	VRS-TV1JD474J	2125 470KOHM 5% 1/10W SMD	S	AA	AA
	R 0737	VRS-TV1JD184J	2125 180KOHM 5% 1/10W SMD	S	AA	AA
	R 0738	VRS-TV1JD473J	2125 47KOHM 5% 1/10W SMD	S	AA	AA
	R 0739	VRS-TV1JD473J	2125 47KOHM 5% 1/10W SMD	S	AA	AA
	R 0740	VRS-TV1JD473J	2125 47KOHM 5% 1/10W SMD	S	AA	AA
⚠	R 0741	VRC-UA2HG825K	SOLID R 8,2MOHM 10% 1/2W	S	AA	AA
⚠	R 0742	VRC-UA2HG825K	SOLID R 8,2MOHM 10% 1/2W	S	AA	AA
	R 0743	VRS-TQ2BD473F	OX RE 47KOHM 1% 1/8W	S	AA	AA
	R 0744	VRS-TQ2BD473F	OX RE 47KOHM 1% 1/8W	S	AA	AA
	R 0745	VRS-TV1JD182F	2125 1,8KOHM 1% 1/10W SMD	S	AA	AA
	R 0746	VRS-TV1JD223J	2125 22KOHM 5% 1/10W SMD	S	AA	AA
	R 0747	VRS-TV1JD272J	2125 2,7KOHM 5% 1/10W SMD	S	AA	AA
	R 0748	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
	R 0750	VRS-TV1JD334J	2125 330KOHM 5% 1/10W SMD	S	AA	AA
	R 0751	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0754	VRS-TV1JD2R7J	2125 2,7 OHM 5% 1/10W SMD	S	AA	AA
	R 0755	VRS-TV1JD331J	2125 330 OHM 5% 1/10W SMD	S	AA	AA
	R 0758	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0762	VRS-TQ2BD221J	OX RE 220 OHM 5% 1/8W SMD	S	AA	AA
	R 0763	RR-XZ0224BMZZ	FUS RES 100R TAP 5% 1/2W	S	AA	AB
	R 0765	VRS-TQ2BD101J	OX RE 100 OHM 5% 1/8W SMD	S	AA	AA
	R 0766	VRS-TQ2BD101J	OX RE 100 OHM 5% 1/8W SMD	S	AA	AA
	R 0767	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 0768	VRS-TQ2BD221J	OX RE 220 OHM 5% 1/8W SMD	S	AA	AA
	R 0769	VRS-TV1JD821J	2125 820 OHM 5% 1/10W SMD	S	AA	AA
	R 0770	RR-XZ0229BMZZ	FUS RES 270R TAP 5% 1/2W	S	AA	AA
	R 0771	VRS-VV3AB474J	MET OX RES 470KOHM 5% 1W	S	AA	AA
	R 0774	VRS-TQ2BD474J	OX RE 470KOHM 5% 1/8W SMD	S	AA	AA
	R 0775	VRS-TQ2BD474J	OX RE 470KOHM 5% 1/8W SMD	S	AA	AA
	R 0776	VRS-TV1JD823J	2125 82KOHM 5% 1/10W SMD	S	AA	AA
	R 0777	VRS-TV1JD470J	2125 47 OHM 5% 1/10W SMD	S	AA	AA
	R 0787	VRS-TV1JD473J	2125 47KOHM 5% 1/10W SMD	S	AA	AA
	R 0788	VRS-TV1JD183J	2125 18KOHM 5% 1/10W SMD	S	AA	AA
	R 0789	VRS-TV1JD183J	2125 18KOHM 5% 1/10W SMD	S	AA	AA
	R 0790	VRD-RA2BE183J	RES 18KOHM 5% 1/8W	S	AA	AA
	R 0791	VRD-RA2BE183J	RES 18KOHM 5% 1/8W	S	AA	AA
	R 0792	VRD-RA2BE682J	RES 6,8KOHM 5% 1/8W	S	AA	AA
	R 0801	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 0803	VRS-TV1JD122J	2125 1,2KOHM 5% 1/10W SMD	S	AA	AA
	R 0804	VRS-TV1JD271J	2125 270 OHM 5% 1/10W SMD	S	AA	AA
	R 0805	VRS-TV1JD222J	2125 2,2KOHM 5% 1/10W SMD	S	AA	AA
	R 0806	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0807	VRS-TV1JD333J	2125 33KOHM 5% 1/10W SMD	S	AA	AA
	R 0808	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 0809	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 0810	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 0811	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA

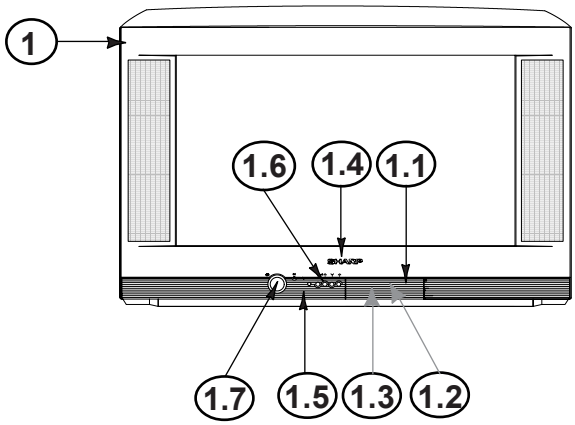
	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
	R 0812	VRS-TV1JD222J	2125 2,2KOHM 5% 1/10W SMD	S	AA	AA
	R 1001	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	AA
	R 1002	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	AA
	R 1003	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	AA
	R 1004	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	AA
	R 1005	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
	R 1008	VRD-RA2BE332J	RES 3,3KOHM 5% 1/8W	S	AA	AA
	R 1017	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 1018	VRD-RA2BE101J	RES 100 OHM 5% 1/8W	S	AA	AA
	R 1019	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	AA
	R 1020	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	AA
	R 1021	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
	R 1022	VRD-RA2BE101J	RES 100 OHM 5% 1/8W	S	AA	AA
	R 1023	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
	R 1024	VRS-TV1JD822J	2125 8,2KOHM 5% 1/10W SMD	S	AA	AA
	R 1025	VRS-TV1JD822J	2125 8,2KOHM 5% 1/10W SMD	S	AA	AA
	R 1026	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
	R 1027	VRD-RA2BE103J	RES 10KOHM 5% 1/8W	S	AA	AA
	R 1028	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 1029	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
	R 1030	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
	R 1031	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
	R 1032	VRS-TV1JD273J	2125 27KOHM 5% 1/10W SMD	S	AA	AA
	R 1033	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 1035	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
	R 1040	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 1041	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
	R 1042	VRS-TV1JD822J	2125 8,2KOHM 5% 1/10W SMD	S	AA	AA
	R 1043	VRS-TV1JD822J	2125 8,2KOHM 5% 1/10W SMD	S	AA	AA
	R 1044	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 1045	VRS-TV1JD822J	2125 8,2KOHM 5% 1/10W SMD	S	AA	AA
	R 1046	VRS-TV1JD182J	2125 1,8KOHM 5% 1/10W SMD	S	AA	AA
	R 1047	VRD-RA2BE103J	RES 10KOHM 5% 1/8W	S	AA	AA
	R 1048	VRS-TV1JD821J	2125 820 OHM 5% 1/10W SMD	S	AA	AA
	R 1049	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 1050	VRD-RA2BE221J	RES 220 OHM 5% 1/8W	S	AA	AA
	R 1051	VRS-TV1JD223J	2125 22KOHM 5% 1/10W SMD	S	AA	AA
	R 1052	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
	R 1053	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 1054	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 1055	VRD-RA2BE473J	RES 47KOHM 5% 1/8W	S	AA	AA
	R 1056	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	R 1057	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 1058	VRD-RA2BE101J	RES 100 OHM 5% 1/8W	S	AA	AA
	R 1059	VRD-RA2BE101J	RES 100 OHM 5% 1/8W	S	AA	AA
	R 1061	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
	R 2401	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S	AA	AA
	R 2402	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
	R 2403	VRS-TV1JD152J	2125 1.5KOHM 5% 1/10W SMD	S	AA	AA
	R 2404	VRS-TV1JD560J	2125 56 OHM 5% 1/10W SMD	S	AA	AA
	R 2405	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 2406	VRS-TV1JD222J	2125 2,2KOHM 5% 1/10W SMD	S	AA	AA
	R 2407	VRS-TV1JD222J	2125 2,2KOHM 5% 1/10W SMD	S	AA	AA
	R 2408	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	AA
	R 2409	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	R 2410	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 2411	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 2412	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	RA 0611	RR-XZ0242BMZZ	FUS RES 3K3 TAP 5% 1/2W	S	AA	AB
			MISCELLANEOUS PARTS			
	(AA)	QCNCM0672FCZZ	CONN B2P3-VH JST	S	AA	AB
	(AV)	QCNW-2736BMZZ	WIRE 1 WAY	S	AA	AF
	(CC)	QPLGN0241CEZZ	PLUG	S	AA	AA
	(F)	QPLGN0505CEZZ	PLUG	S	AA	AB
	(FV)	QPLGN0241CEZZ	PLUG	S	AA	AA
	(G)	QPLGN0207CEZZ	PLUG	S	AA	AA
	(H)	QPLGN0541CEZZ	PLUG	S	AA	AA
	(HD)	QPLGN0341CEZZ	PLUG	S	AA	AA
	(K)	QPLGN0841CEZZ	PLUG	S	AA	AB
	(PW)	QCNCM0672FCZZ	CONN B2P3-VH JST	S	AA	AB
	(RC)	QPLGN0341CEZZ	PLUG	S	AA	AA
	(SP)	QPLGN0441CEZZ	PLUG 4PIN	S	AA	AA
	(SS)	QPLGN0341CEZZ	PLUG	S	AA	AA

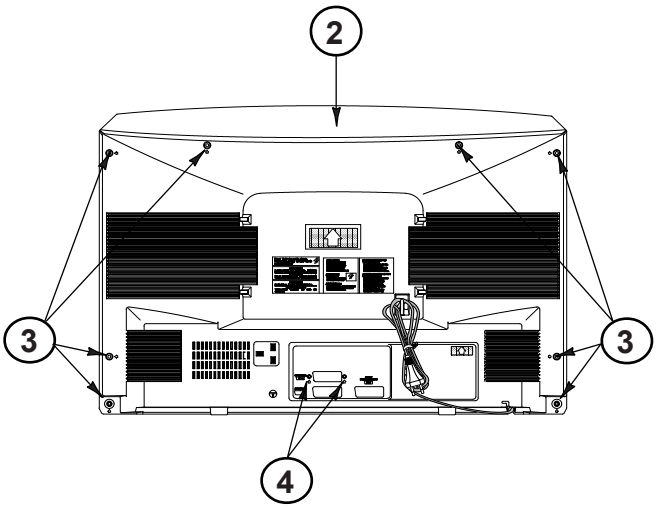
	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
	CN 0001	QSOCZ2109BMZZ	TWIN SCART HR-DG1311G-0	S	AG	AK
	CN 0002	QSOCZ2107BMZZ	SOCKET	S	AF	AE
⚠	F 0601	QFS-J2521CEZZ	FUSE 2,5A/125V LITTELFUSE	S	AC	AD
⚠	F 0602	QFS-J2521CEZZ	FUSE 2,5A/125V LITTELFUSE	S	AC	AD
	FB 0301	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S	AB	AB
	FB 0302	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S	AB	AB
	FB 0303	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S	AB	AB
	FB 0501	RBLN-0020CEZZ	BALUNE	S	AA	AB
	FB 0701	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S	AB	AB
	FB 0702	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S	AB	AB
	FB 0703	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S	AB	AB
	FB 0705	RBLN-0020CEZZ	BALUNE	S	AA	AB
	FB 0801	VP-NM3R3MR19N	COIL 3,3UH SMD	S	AA	AC
	FB 0802	RCORF0003GEZZ	SMDFERRIT HF50ACB322513	S	AA	AC
	FB 1001	RCORF0003GEZZ	SMDFERRIT HF50ACB322513	S	AA	AC
	FB 1002	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S	AB	AB
	J 0002	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0039	VP-DF3R3K0000	PEAK COIL 3,3UH 10%	S	AB	AB
	J 0062	VP-DF3R3K0000	PEAK COIL 3,3UH 10%	S	AB	AB
	J 0098	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0126	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0152	QFS-J1023CEZZ	FUSE 492001 T1 LITTELFUSE	S	AA	AA
	J 0212	VRD-RA2HD101J	RES 100 OHM 5% 1/2W	S	AA	AA
	J 0218	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0219	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0220	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0240	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0248	VRD-RA2HD102J	RES 1KOHM 5% 1/2W	S	AA	AA
	J 0279	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0281	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0283	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0286	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0289	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0294	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0302	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0310	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0313	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0324	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0325	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0332	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0335	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0336	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0338	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0339	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0341	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0342	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0354	VRS-TQ2BD000J	3216 0 OHM 5% 1/8W SMD	S	AA	AA
	J 0355	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0360	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0361	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0365	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0369	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0370	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0371	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0372	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0701	VCKYTV1HB104K	CERAM C 100NF 50V 2125SMD	S	AA	AA
	JF 0003	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	JF 0015	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	JF 0016	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	JF 0020	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	JF 0021	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	JF 0022	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	JF 0038	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	JF 0041	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	JF 0052	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	JF 0068	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	JF 0070	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	JF 0075	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	JF 0076	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	JF 0077	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	JF 1002	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	JF 1003	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	JL 0012	QCNW-2736BMZZ	WIRE 1 WAY	S	AA	AF
	L 0002	QTIPM0017CEFM	TIP	S	AA	AA

	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
	L 0006	QTIPM0017CEFM	TIP	S	AA	AA
	SW 0001	QPLGN0341CEZZ	PLUG	S	AA	AA
	SW 0002	QPLGN0341CEZZ	PLUG	S	AA	AA
	IC 1002	QSOCZ2051SC32	32 PIN IC SOCKET	S	AC	AC
	PWB-B		**CRT UNIT**			
			INTEGRATED CIRCUITS			
	IC 1801	RH-IX1803BMZZ	IC STV5109 ST	S	AD	AN
			TRANSISTORS			
	Q 0901	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 0902	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 0903	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
	Q 0904	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 0905	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 0906	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
	Q 0907	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 0908	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 0909	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
	Q 0912	RH-TX0218BMZZ	TRT BC337-40 PHILIPS	S	AA	AA
	Q 5405	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 5406	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
	Q 5407	VS2SA1837//-1	TRT A1837 TOSHIBA	S	AB	AE
	Q 5408	VS2SC4793//-1	TRT C4793 TOSHIBA	S	AB	AE
	Q 5410	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 5411	VS2SC2412KQ-1	TRT 2SC2412 ROHM	S	AA	AA
	Q 5412	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
			DIODES			
	D 1804	RH-DX0505BMZZ	DIODE 1N4935	S	AB	AE
	D 1805	RH-EX0554BMZZ	ZENER DIODE TZMC12 TFK SMD	S	AA	AA
	D 1809	RH-DX0501BMZZ	DIODE 1N4004	S	AA	AA
	D 1811	RH-DX0638BMZZ	DIODE BAV21	S	AA	AA
	D 1812	RH-DX0638BMZZ	DIODE BAV21	S	AA	AA
	D 1813	RH-DX0638BMZZ	DIODE BAV21	S	AA	AA
	D 5403	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
	D 5404	RH-DX0501BMZZ	DIODE 1N4004	S	AA	AA
	D 5405	RH-DX0501BMZZ	DIODE 1N4004	S	AA	AA
	D 5410	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
			CAPACITORS			
	C 1801	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1802	VCCCTV1HH5R0C	CERAM C 5PF 50V 2125SMD	S	AA	AA
	C 1803	VCCCTV1HH150J	CERAM C 15PF 50V 2125SMD	S	AA	AA
	C 1804	VCCCTV1HH150J	CERAM C 15PF 50V 2125SMD	S	AA	AA
	C 1805	VCKYTV1HF224Z	CERAM C 220NF 50V 2125SMD	S	AA	AA
	C 1806	VCKYTV1HB103K	CERAM C 10NF 50V 2125SMD	S	AA	AA
	C 1807	VCEAGA1CW108M	ELEC C 1000UF 20% 16V	S	AA	AB
	C 1808	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 1809	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 1810	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 1811	VCEAGA2EW106M	ELEC C 10UF 20% 250V	S	AA	AC
	C 1812	VCEAGA2EW105M	ELEC C 1UF 20% 250V	S	AA	AB
	C 1813	VCKYTV1HB103K	CERAM C 10NF 50V 2125SMD	S	AA	AA
	C 1814	VCKYPB3DE472Z	C DE1110-1E472Z2K MURATA	S	AA	AC
	C 1815	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1820	VCCCTV1HH220J	CERAM C 22PF 50V 2125SMD	S	AA	AA
	C 1821	VCCCTV1HH220J	CERAM C 22PF 50V 2125SMD	S	AA	AA
	C 1822	VCCCTV1HH220J	CERAM C 22PF 50V 2125SMD	S	AA	AA
	C 1824	VCKYPA2HB472K	CERAM C 4,7NF 10% 500V	S	AA	AB
	C 1825	RC-KZ0029CEZZ	CERAM C 10NF 80,20% 250V	S	AC	AC
	C 5405	RC-FZ4224BMNJ	POL FILM C 220nF 50V 5% ECQ-V PANASONIC	S	AA	AC
	C 5408	VCKYPA2HB472K	CERAM C 4,7NF 10% 500V	S	AA	AB
	C 5409	VCKYTV1HB472K	CERAM C 4,7NF 50V 2125SMD	S	AA	AA
	C 5410	VCKYTV1HB103K	CERAM C 10NF 50V 2125SMD	S	AA	AA
	C 5411	VCKYTV1HB103K	CERAM C 10NF 50V 2125SMD	S	AA	AA
	C 5412	VCEAGA1CW107M	ELEC C 100UF 20% 16V	S	AA	AA
	C 5413	VCEAGA1CW107M	ELEC C 100UF 20% 16V	S	AA	AA
	C 5414	VCEAGA2CW226M	ELEC C 22UF 20% 160V	S	AA	AC
	C 5415	VCEAGA2CW226M	ELEC C 22UF 20% 160V	S	AA	AC
			RESISTORS			
	R 1801	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
	R 1802	VRS-TV1JD391J	2125 390 OHM 5% 1/10W SMD	S	AA	AA

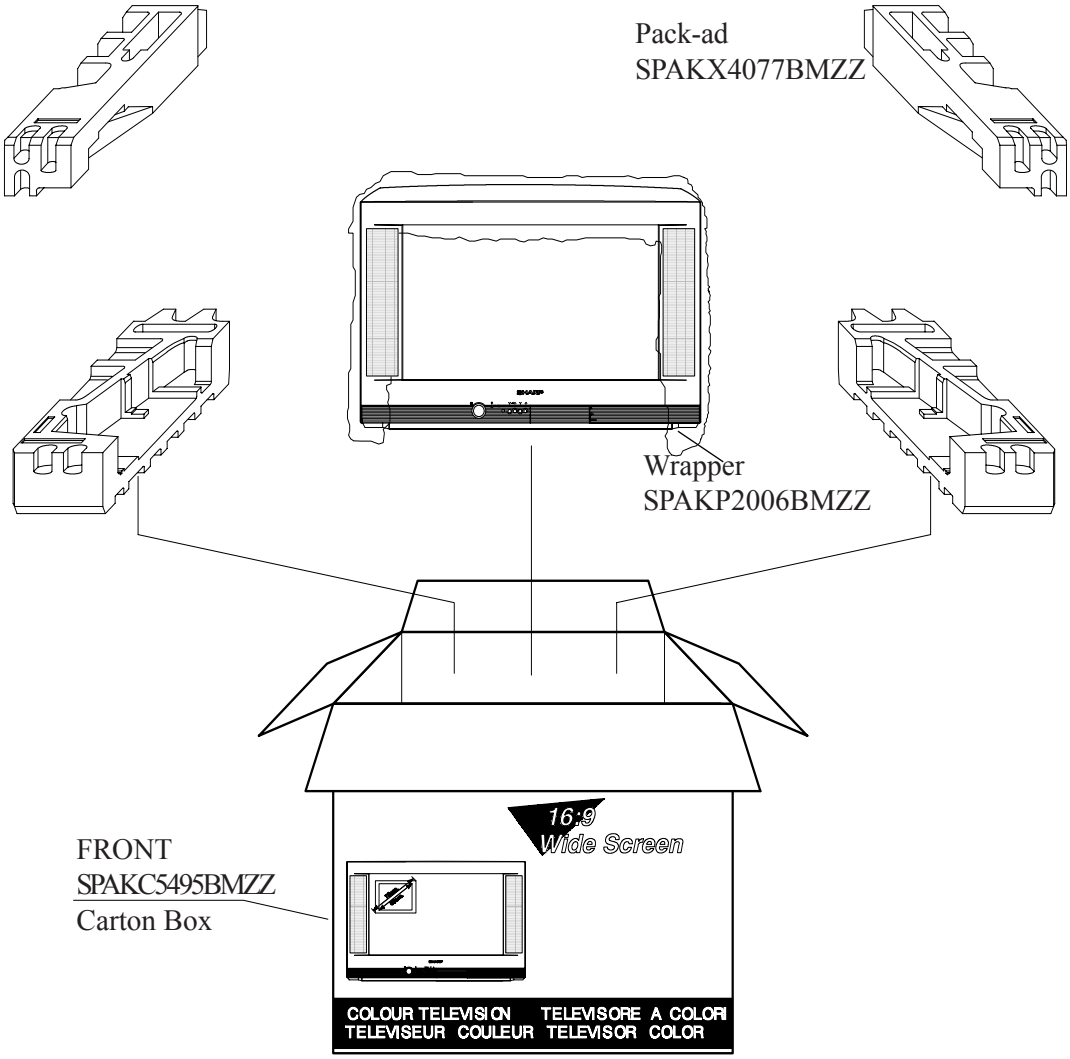
	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
	R 1803	VRS-TV1JD750J	2125 75 OHM 5% 1/10W SMD	S	AA	AA
	R 1804	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 1805	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 1806	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
	R 1807	VRS-TV1JD391J	2125 390 OHM 5% 1/10W SMD	S	AA	AA
	R 1808	VRS-TV1JD750J	2125 75 OHM 5% 1/10W SMD	S	AA	AA
	R 1809	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 1810	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 1811	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
	R 1812	VRS-TV1JD391J	2125 390 OHM 5% 1/10W SMD	S	AA	AA
	R 1813	VRS-TV1JD750J	2125 75 OHM 5% 1/10W SMD	S	AA	AA
	R 1814	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 1815	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 1816	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
	R 1817	VRS-TV1JD122J	2125 1,2KOHM 5% 1/10W SMD	S	AA	AA
	R 1818	VRS-TV1JD122J	2125 1,2KOHM 5% 1/10W SMD	S	AA	AA
	R 1819	VRS-TV1JD122J	2125 1,2KOHM 5% 1/10W SMD	S	AA	AA
	R 1820	VRD-RA2HD823J	RES 82KOHM 5% 1/2W	S	AA	AA
	R 1821	VRD-RA2HD823J	RES 82KOHM 5% 1/2W	S	AA	AA
	R 1822	VRD-RA2HD823J	RES 82KOHM 5% 1/2W	S	AA	AA
	R 1823	VRS-TV1JD222J	2125 2,2KOHM 5% 1/10W SMD	S	AA	AA
	R 1824	VRS-TV1JD222J	2125 2,2KOHM 5% 1/10W SMD	S	AA	AA
	R 1825	VRS-TV1JD222J	2125 2,2KOHM 5% 1/10W SMD	S	AA	AA
	R 1830	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
	R 1831	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S	AA	AA
	R 1832	VRC-MA2HG681J	SOLID R 680 OHM 5% 1/2W	S	AA	AB
	R 1833	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S	AA	AA
	R 1834	VRC-MA2HG681J	SOLID R 680 OHM 5% 1/2W	S	AA	AB
	R 1835	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S	AA	AA
	R 1836	VRC-MA2HG681J	SOLID R 680 OHM 5% 1/2W	S	AA	AB
	R 1837	VRS-TV1JD225J	2125 2,2MOHM 5% 1/10W SMD	S	AA	AA
	R 1839	VRS-TV1JD100J	2125 10 OHM 5% 1/10W SMD	S	AA	AA
	R 1840	VRS-TV1JD822J	2125 8,2KOHM 5% 1/10W SMD	S	AA	AA
	R 1841	VRD-RA2BE220J	RES 22 OHM 5% 1/8W	S	AA	AA
	R 1843	VRS-TV1JD220J	2125 22 OHM 5% 1/10W SMD	S	AA	AA
	R 5412	VRS-TV1JD470J	2125 47 OHM 5% 1/10W SMD	S	AA	AA
	R 5413	VRS-TV1JD220J	2125 22 OHM 5% 1/10W SMD	S	AA	AA
	R 5414	VRS-TV1JD220J	2125 22 OHM 5% 1/10W SMD	S	AA	AA
	R 5415	VRS-TV1JD122J	2125 1,2KOHM 5% 1/10W SMD	S	AA	AA
	R 5416	VRS-TV1JD683J	2125 68KOHM 5% 1/10W SMD	S	AA	AA
	R 5417	VRS-TV1JD123J	2125 12KOHM 5% 1/10W SMD	S	AA	AA
	R 5418	VRS-TV1JD683J	2125 68KOHM 5% 1/10W SMD	S	AA	AA
	R 5419	VRS-TV1JD122J	2125 1,2KOHM 5% 1/10W SMD	S	AA	AA
	R 5420	VRD-RA2EE560J	RES 56 OHM 5% 1/4W	S	AA	AA
	R 5421	VRD-RA2EE560J	RES 56 OHM 5% 1/4W	S	AA	AA
	R 5422	VRD-RA2EE2R7J	RES 2,7 OHM 5% 1/4W	S	AA	AA
	R 5423	VRD-RA2EE2R7J	RES 2,7 OHM 5% 1/4W	S	AA	AA
	R 5425	VRS-VV3AB471J	MET OX RES 470 OHM 5% 1W	S	AA	AA
	R 5426	VRS-VV3DB221J	MET FILM R 220 OHM 5% 2W	S	AA	AB
	R 5428	VRD-RA2EE101J	RES 100 OHM 5% 1/4W	S	AA	AA
	R 5431	VRS-TV1JD391J	2125 390 OHM 5% 1/10W SMD	S	AA	AA
	R 5432	VRS-TV1JD330J	2125 33 OHM 5% 1/10W SMD	S	AA	AA
	R 5433	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 5434	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 5435	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
			MISCELLANEOUS PARTS			
⚠	SC 1801	QSOCV0103BMZZ	SOCK HPS1521-014408 HOSHI	S	AD	AG
	(H)	QPLGN0541CEZZ	PLUG	S	AA	AA
	(K)	QPLGN0841CEZZ	PLUG	S	AA	AB
	(PU)	QPLGN0341CEZZ	PLUG	S	AA	AA
	J 0004	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0005	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0071	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0072	VRD-RA2BE102J	RES 1KOHM 5% 1/8W	S	AA	AA
	J 0074	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0075	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0076	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0079	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	L 0003	QTIPM0017CEFM	TIP	S	AA	AA
	VR 1801	RH-VX0035BMZZ	VARISTOR 510V/25A PHILIPS	S	AA	AD
	PWB-C		**PFC UNIT**			
			INTEGRATED CIRCUITS			
	IC 1701	RH-IX1801BMZZ	IC L6561D ST	S	AC	AH
			TRANSISTORS			
	Q 1701	RH-TX0231BMZZ	TRT 2SK2662 TOSHIBA	S	AB	AG
			DIODES			
	D 1701	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
	D 1702	RH-EX0558BMZZ	ZENER DIODE TZMC18 TFK SMD	S	AA	AA
	D 1703	RH-DX0618BMZZ	DIODE BYV28-600 VISHAY PREFOR 17.5MM	S	AA	AE
			TRANSFORMERS			
	T 1701	RTRNZ0587BMZZ	BOOST INDUCTOR PFC HR-275N-15021-00	S	AG	AS
			CAPACITORS			
	C 1701	RC-FZ0186BMZZ	C 22NF 630V 222237514223 PHILIPS	S	AA	AD
	C 1702	RC-FZ4103BMNJ	POL FILM C 10nF 50V 5% ECQ-B PANASONIC	S	AA	AA
	C 1703	VCEAGA1EW226M	ELEC C 22UF 20% 25V	S	AA	AA
	C 1704	RC-KZ0035CEZZ	CERAM C 220PF 2KV	S	AA	AC
	C 1705	VCKYTV1CF105Z	CERAM C 1UF 16V 2125SMD	S	AA	AA
	C 1706	VCKYTV1HB103K	CERAM C 10NF 50V 2125SMD	S	AA	AA
	C 1707	RC-FZ0186BMZZ	C 22NF 630V 222237514223 PHILIPS	S	AA	AD
			RESISTORS			
	R 1701	VRS-TQ2BD564J	RE OX 560KOHM 5% 1/8W SMD	S	AA	AA
	R 1702	VRS-TQ2BD564J	RE OX 560KOHM 5% 1/8W SMD	S	AA	AA
	R 1703	VRS-TQ2BD564J	RE OX 560KOHM 5% 1/8W SMD	S	AA	AA
	R 1704	VRS-TQ2BD564J	RE OX 560KOHM 5% 1/8W SMD	S	AA	AA
	R 1705	VRS-TQ2BD564J	RE OX 560KOHM 5% 1/8W SMD	S	AA	AA
	R 1706	VRS-TQ2BD564J	RE OX 560KOHM 5% 1/8W SMD	S	AA	AA
	R 1707	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 1708	VRS-TV1JD683J	2125 68KOHM 5% 1/10W SMD	S	AA	AA
	R 1709	VRD-RA2BE100J	RES 10 OHM 5% 1/8W	S	AA	AA
	R 1710	VRN-VV3ABR47J	MET FILM R .47 OHM 5% 1W	S	AA	AA
	R 1711	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 1712	VRS-TV1JD622F	2125 6.2KOHM 1% 1/10W SMD	S	AA	AA
	R 1713	VRS-TQ2BD334F	OX RE 330KOHM 1% 1/8W SMD	S	AA	AA
	R 1714	VRS-TQ2BD334F	OX RE 330KOHM 1% 1/8W SMD	S	AA	AA
	R 1715	VRS-TQ2BD334F	OX RE 330KOHM 1% 1/8W SMD	S	AA	AA
			MISCELLANEOUS PARTS			
	(PWA)	QCNCM0672FCZZ	CONN B2P3-VH JST	S	AA	AB
	FB 1701	RBLN-0080CEZZ	BALUNE	S	AA	AE
	L 0006	QTIPM0017CEFM	TIP	S	AA	AA
	PWB-D		**POWER SWITCH UNIT**			
			COILS			
	L 6317	VP-DF3R3K0000	PEAK COIL 3,3UH 10%	S	AB	AB
	L 6318	VP-DF3R3K0000	PEAK COIL 3,3UH 10%	S	AB	AB
	L 6701	RCILF0108BMZZ	COIL 472839.00 THOMSON	S	AF	AL
			CAPACITORS			
	C 6336	VCKZPA1HF103Z	CERAM C 10NF % 50V	S	AA	AA
	C 6337	VCKZPA1HF103Z	CERAM C 10NF % 50V	S	AA	AA
	C 6428	VCKZPA1HB102K	CERAM C 1NF 10% 50V	S	AA	AA
	C 6429	VCKZPA1HB102K	CERAM C 1NF 10% 50V	S	AA	AA
⚠	C 6701	RC-FZ0219BMZZ	C 470NF 275V X2 B81130-C1474-M SIEMENS	S	AA	AD
⚠	C 6746	RC-FZ0192BMZZ	C 330NF 275V X2 222233820334 PHILIPS	S	AA	AC
			RESISTORS			
	R 6316	VRD-RA2BE391J	RES 390 OHM 5% 1/8W	S	AA	AA
	R 6317	VRD-RA2BE391J	RES 390 OHM 5% 1/8W	S	AA	AA
	R 6449	VRD-RA2EE750J	RES 75 OHM 5% 1/4W	S	AA	AA
	R 6701	VRD-RA2HD124J	RES 120KOHM 5% 1/2W	S	AA	AA
	R 6702	VRD-RA2HD124J	RES 120KOHM 5% 1/2W	S	AA	AA
			MISCELLANEOUS PARTS			
		RCORF0002BMZZ	FERRITE CORE TFC-16816EX	S	AF	AK
	(A)	QCNW-2826BMZZ	WIRE (AA) 2 WAYS	S	AA	AE
	(A)0000	QPLGN0207CEZZ	PLUG	S	AA	AA
	(CC)	QCNW-2801BMZZ	WIRE 2 WAYS (CC)	S	AA	AF
	(CC)	QPLGN0241CEZZ	PLUG	S	AA	AA
	(FV)	QCNW-2802BMZZ	WIRE 2 WAYS (FV)	S	AA	AF
	(FV)	QPLGN0241CEZZ	PLUG	S	AA	AA
	(H)	QPLGN0304CEZZ	PLUG	S	AA	AB

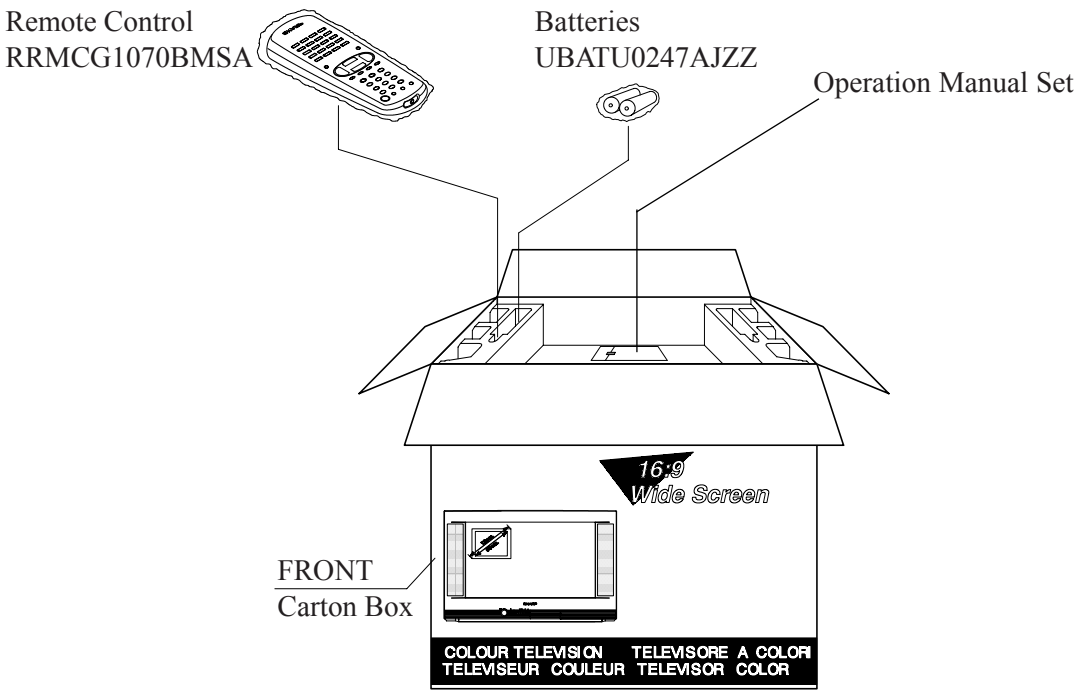
	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
	(HD)	QCNW-2849BMZZ	WIRE 3 WAYS HD	S	AA	AE
	(HD)	QPLGN0341CEZZ	PLUG	S	AA	AA
	(RC)	QCNW-2839BMZZ	WIRE 3 WAYS PROTECTED	S	AA	AE
	(RC)	QPLGN0341CEZZ	PLUG	S	AA	AA
	(SS)	QCNW-2792BMZZ	WIRE 3 WAYS (SS)	S	AA	AE
	(SS)	QPLGN0341CEZZ	PLUG	S	AA	AA
	(SW1)	QCNW-2839BMZZ	WIRE 3 WAYS PROTECTED	S	AA	AE
	(SW2)	QCNW-2839BMZZ	WIRE 3 WAYS PROTECTED	S	AA	AE
	CN 0004	QJAKJ0101SEZZ	MINIATURE PHONE JACK MORNING STAR	S	AA	AD
⚠	F 6701	QFS-C3226CEZZ	FUSE T3.15AH 250V	S	AC	AE
	J 6401	QJAKZ0015CEZZ	JACK	S	AH	AM
	LP 6701	RLAMP0001BMZZ	NEON TYPE 4/30HB NEOTRONIC	S	AB	AC
	M 6701	RRMCU0203BMZZ	R/C RECEIVER TS0P1738 TFK	S	AD	AG
⚠	S 6701	QSW-P0613BMZZ	SWITH S95 GDE	S	AB	AG
	S 6702	QSW-K0079GEZZ	TACTILE SWITCH	S	AA	AA
	S 6703	QSW-K0079GEZZ	TACTILE SWITCH	S	AA	AA
	S 6704	QSW-K0079GEZZ	TACTILE SWITCH	S	AA	AA
	S 6705	QSW-K0079GEZZ	TACTILE SWITCH	S	AA	AA
	SW 0001	QPLGN0341CEZZ	PLUG	S	AA	AA
	SW 0002	QPLGN0341CEZZ	PLUG	S	AA	AA
		QFSHD1001BMZZ	FUSE HOLD.EYF52BC=PANASON	S	AA	AA
		QFSHD1002BMZZ	FUSE HOLD.EYF52BC=PANASON	S	AA	AA
			MISCELLANEOUS PARTS			
⚠		QACCZ2100BMSA	AC CORD	S	AH	AR
		RCORF2064XHZZ	FERRIT TRA31	S	AA	AD
		RRMCG1070BMSA	R/C WIDE MODEL HOSHIDEN	S	AK	AW
		UBATU0247AJZZ	BATTERY R6(X2)	S	AE	AH
		XTBSB30P13000	SCREW	S	AA	AA
	(F)	CSOCN0661BMV0	CABLE SET (F) THOMSON SF CRT	S	AA	AH
	(PU)	QCNW-2795BMZZ	WIRE 3 WAYS	S	AA	AD
		VSP1206PB617A	SPAEAKER 7 OHM 12x6CM SEA TRADE ELECTRON	S	AE	AN
	(S)0000	QCNW-2862BMZZ	WIRE SPEAKERS FOR 32" FLAT	S	AA	AG
		LCHSM1011BMZZ	CHASSIS FRAME	S	AA	AL
	(H)	QCNW-2783BMZZ	WIRE (KA) 5 WAYS	S	AA	AF
	(K)	QCNW-2831BMZZ	WIRE (K)	S	AA	AL
	(PW)	QCNW-2868BMZZ	POWER SUPPLIER WIRE PFC PWA	S	AB	AF
	L 0006	QCNW-2861BMZZ	WIRE WROUND DOUBLE AISOLATION	S	AA	AD
		QEARC0022BMZZ	C.ERATH DA-50W	S	AP	AZ
			OWNERS MANUALS			
		TINS-7150BMN0	OWNERS MANUAL 28HW53ESE	S	--	--
		TINS-7151BMN0	OWNERS MANUAL 28HW53EF	S	--	--
		TINS-7153BMN0	OWNERS MANUAL 28HW53EES	S	--	--
		TINS-7160BMN0	OWNERS MANUAL 28HW53EIT	S	--	--
			CABINET PARTS			
	1	CCABA1362BMV1	CABINET SET + ELEC ASS 28HW53E	S	--	--
	1.1	GDORF1063BMSA	DOOR	S	AA	AE
	1.2	PKAI-1083BM00	DOOR RATCH	S	AC	AF
	1.3	HINDP5122BMSA	INDICATOR	S	--	--
	1.4	HBDGB3141CESA	SHARP BADGE	S	AB	AG
	1.5	HDECQ0067BMSA	DECORATION	S	AA	AC
	1.6	JBTN-1080BMSA	UP/DOWN BUTTON	S	AA	AD
	1.7	JBTN-1079BMSA	POWER BUTTON	S	AA	AC
⚠	2	GCABB1126BMKA	REAR CABINET	S	AS	BD
	3	XTASB40P2000	REAR CABINET SCREWS	S	AA	
	4	XTBSB30P13000	AV SCREWS	S	AA	





PACKING OF THE SET

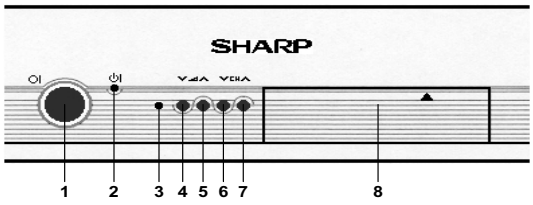




CONTROLS & TERMINALS

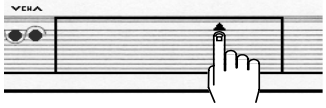
FRONT TV

1. Main Power On/Off Switch
2. Power Indicator
3. Remote Control Sensor
4. Volume Button (DOWN)
5. Volume Button (UP)
6. Program Selector (DOWN)
7. Program Selector (UP)
8. Door



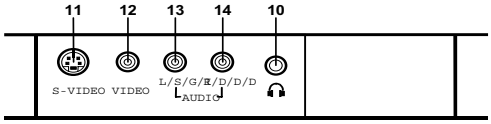
HOW TO OPEN THE DOOR

Press the top of the door, opening it slightly hook your finger inside and pull open.



Behind the door

10. Headphone Socket (3.5mm / 16~600 ohms)
11. S-Video input terminal
12. Video Input Terminal (PAL/SECAM/NTSC)
13. Audio Input Terminal (left)
14. Audio Input Terminal (right)



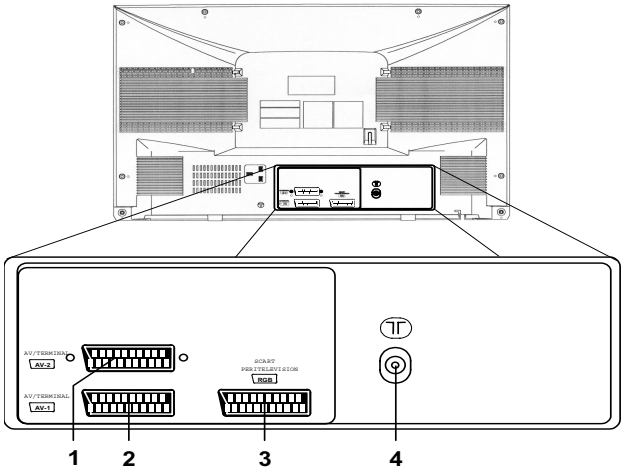
REAR TV

21-pin In/Out

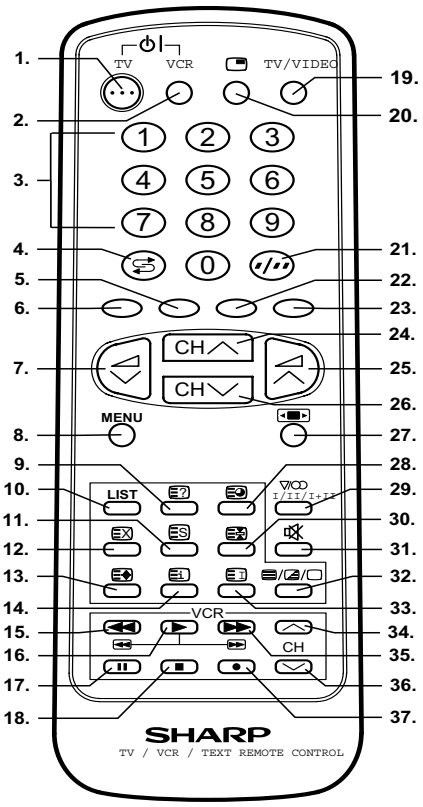
1. 21-pin Audio/Video (AV-2)
   With PAL/SECAM/NTSC Video Input
2. 21-pin Audio/Video (AV-1)
   With PAL/SECAM/NTSC/S-Video Input
3. 21-pin Euro SCART (RGB)
   With PAL/SECAM/NTSC Video Input

RF Input

4. Aerial terminal



REMOTE CONTROL



TV	**1.** Stand-by ON/OFF switch (TV)
Video	**2.** Power ON / OFF switch (VCR)
TV	**3.** Digit buttons 0 – 9
	4. Flashback button
Teletext	**5.** Colour button (green)
	6. Colour button (red)
TV	**7.** Volume DOWN/Cursor control LEFT
	8. Menu button
Teletext	**9.** Reveal button
	10. List selector
	11. Store button
	12. Cancel button
	13. Half page button
	14. Cursor button
TV	**14.** Sub-titles button
Video	**15.** Rewind/picture search/reverse
	16. Play button
	17. Pause / Still button
	18. Stop button
TV	**19.** TV / VIDEO selector
	20. Call button
	21. Single/Double entry
Teletext	**22.** Colour button (yellow)
	23. Colour button (cyan)
TV	**24.** Channel UP/Cursor control UP
	25. Volume UP/Cursor control RIGHT
	26. Channel DOWN/Cursor control DOWN
	27. Wide Mode selector
TV /Teletext	**28.** Time button
TV	**29.** Sound mode selector
Teletext	**30.** Hold button
TV	**31.** Sound Mute button
Teletext	**32.** Text/Mix/Picture button
	33. Index button
Video	**34.** Channel Up selector
	35. Fast forward/picture search/forward
	36. Channel Down selector
	37. Record button

SHARP®

No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without prior written permission of the publisher.

SHARP ELECTRONICA ESPAÑA S.A.
TV Division
Engineering Dept.
Polígono Industrial Can Sant Joan
Sant Cugat del Vallès
Barcelona
Spain

PRINTED BY: ON:

Think Ecology, please use

RECYCLED PAPER